



# GENESYS<sup>™</sup>G Series Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

# ! Advanced Features Built-In !

Arbitrary Waveform Generator with Auto-Trigger Capability

 Programmable Slew Rate Control (Vout/lout)

 Constant Power Limit Operation • Internal Resistance Programming

 Built-In Remote Isolated Analog Interface
 Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 Blank Front Panel Option Available





Trusted • Innovative • Reliable



The **G***E***NESYS**<sup>™</sup> family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

#### Features include:

- Leading DC Programmable power density (7.5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 kg, 7.5kW<8.5 kg, GSP 10kW<15.5 kg, 15kW<23.5 kg
- Wide Range of popular worldwide AC inputs: G1kW/1.7kW: 1ø (85~265VAC)
   G2.7kW / G3.4kW: 1ø (170~265VAC), 3ø (208VAC, 400VAC)
   G5kW / G7.5kW / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 1500V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- Fan speed controlled by ambient temperature and load
- Certified LabWindows<sup>™</sup>/CVI, LabVIEW<sup>™</sup>, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

### **Applications**

GENESYS<sup>™</sup> power supplies have been designed to meet the demands of a wide variety of applications.

Test & Measurement systems, Component Device Testing, Manufacturing and process control.

#### Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology.

**Higher power systems** can be configured with up to twelve (12) 7.5kW units. Each unit is 1U with zero space between them (zero stack).

**OEM Designers** have a wide variety of Inputs and Outputs from which to select depending on application and location.

## G1kW-7.5kW Front Panel Description



- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

### G1kW-5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V.
- G2.7kW / G3.4kW / G5kW AC Input: 208VAC, 400VAC & 480VAC, Three Phase, 50/60 Hz. (Model shown) AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief. G1.7kW / G2.7kW / G3.4kW AC Input Single Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/3-STCL1-7.62 Series with strain relief. G1kW AC Input Connector: IEC320 C16.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

## G7.5kW Rear Panel Description



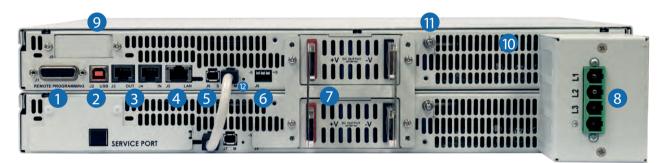
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- Remote/Local Output Voltage Sense Connections.
   Plug connector: PHOENIX CONTACT GIC 2,5 HCV/ 3-ST-7,62 1745632
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- G7.5kW: AC Input: 480VAC, Three Phase, 50/60 Hz. (Model shown) AC Input Plug Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief. AC Input: 208VAC, Three Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when units are zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

## GSP10kW Front Panel Description

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		5	6	

- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

### GSP10kW Rear Panel Description



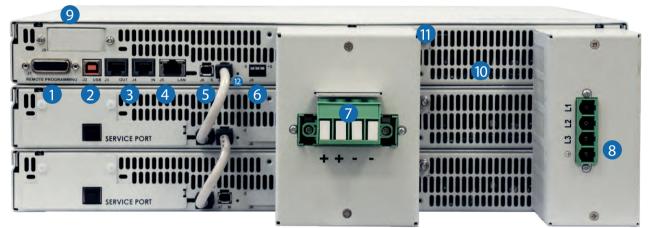
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V.
- Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. AC Input Plug Connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

## GSP15kW Front Panel Description

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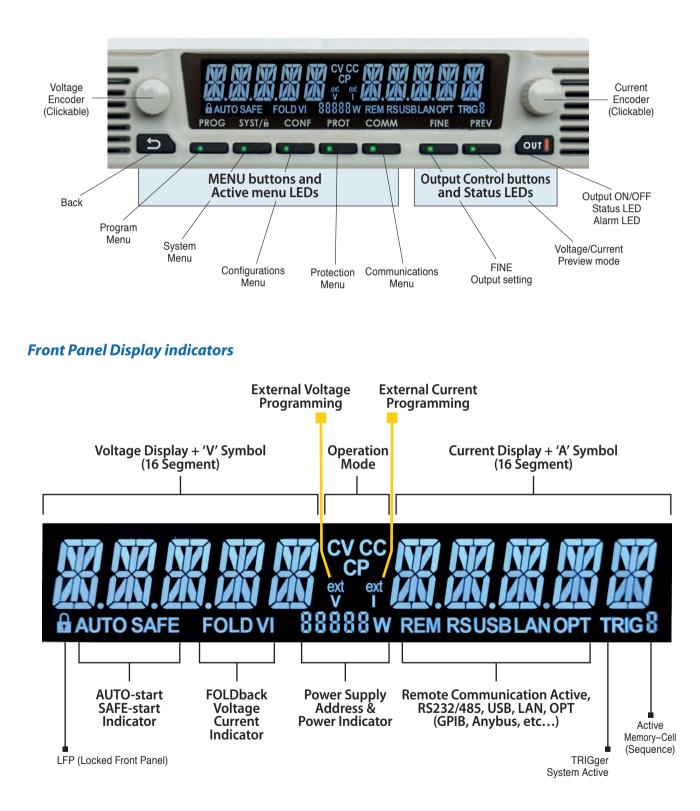
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

### GSP15kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V (shown).
- Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz.
   AC Input Plug Connector: PHOENIX CONTACT DFK-PC 16/4-ST-10.16 with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.
- 11. Functional Ground connection (M4x8mm stud).
- 12. Reset button. Set default Power Supply settings.

## Front Panel Display MENU/CONTROL buttons:



#### GENESYS<sup>™</sup> G&GSP Series Blank Front Panel (ATE version)



A Blank Front Panel is available for applications where the front panel display and controls are not required and only remote interface (Digital/Analog) is needed.

The Blank Front Panel option has all the standard product functions and features except the display.

The power supply can be controlled via the rear panel Remote digital interface

(LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

### GENESYS<sup>™</sup> Parallel and Series Configurations

### Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to twelve (12) identical units to be connected

Total real current is programmed measured and reported by the Master. Up to twelve (12) supplies operate as one.

Separate Parallel Kit available for 30kW (6 unit) systems allowing easy system setup. Order P/N: G/P - 6U Standard Unit - zero stacked up to 12 units



#### Series operation

Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

### Multi-Drop Remote Programming via Communication Interface

Standard Built-in LAN, USB, RS-232 & RS-485 allows "Multi-Drop" daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.

- First unit is LAN, USB, RS-232, RS-485, etc.
- All other units use RS-485 daisy chain with linking cable.



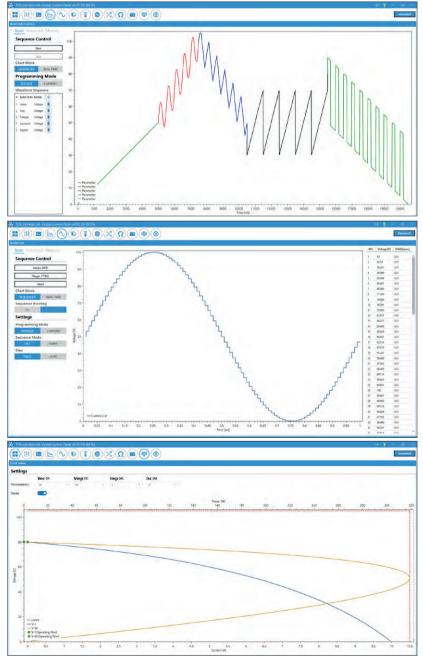
LAN, USB, RS-232, RS-485, IEEE, AnyBus

### **Graphical User Interface**

Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 1. 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. 2. Automatically detect power supplies connected to a PC and/or local network.
- 3. **3.** Advanced Terminal, including Modbus-TCP and EtherCAT communication interfaces.
- 4. 4. Real-time Graph and Waveform creator, including pre-built functions i.e. Sine, Triangle and Square.
- 5. **5. Solar array simulation based on VOC, VMP, IMP, ISC.**
- 6. 6. Advanced functions control Slew-Rate, Internal Resistance and Constant Power.
- 7. 7. Multi-Model Monitoring and Control Panel.
- 8. 8. Individual and Global commands control.

## **GUI Waveform Profile Generator**



### How to order G1kW/1.7kW - Power Supply Identification / Accessories

G	10	- 170 -		-	-
Series Name	Output	Output	Interface Options	AC Cord Options only for 1kW	Accessories Options
Front Panel Type	Voltage	Current		Region: E - Europe	M - Printed *User Manual
Empty: standard	(0~10V)	(0~170A)		U - North America	* User Manual & GUI are available on the website
B: Blank Front Panel	(ATE version)			J - Japan	P - Bus Parralleling Cable
			×.	C - China	
AC Inputs (All Mo	odels)			I - Middle East	
1Ø, 85 ~ 265Vac					
Interface Option	ns (Factory i	nstalled)	P/N		
LAN ( <i>LXI</i> 1.5 compliar	nt with Multi-Drop	capability)- built-in	-		
USB 2.0 compliant w	ith Multi-Drop ca	apability - built-in	-		
RS-232/RS-485 - bu			-		
Isolated Analog Prog			-		
(5V/10V Pgm/Mon wi					
	ompliant with Mu	Ilti-Drop capability installed)			
Modbus-TCP			MDBS		
EtherCAT			ECAT		
Isolated Analog Curre (4mA-20mA with 600		litor Interface	IS420		

#### Models 1kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	0~100	1000	G80-12.5	0~80V	0~12.5	1000
G20-50	0~20V	0~50	1000	G100-10	0~100V	0~10	1000
G30-34	0~30V	0~34	1020	G150-7	0~150V	0~7	1050
G40-25	0~40V	0~25	1000	G300-3.5	0~300V	0~3.5	1050
G60-17	0~60V	0~17	1020	G600-1.7	0~600V	0~1.7	1020

### Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-170	0~10V	0~170	1700	G80-21	0~80V	0~21	1680
G20-85	0~20V	0~85	1700	G100-17	0~100V	0~17	1700
G30-56	0~30V	0~56	1680	G150-11.2	0~150V	0~11.2	1680
G40-42	0~40V	0~42	1680	G300-5.6	0~300V	0~5.6	1680
G60-28	0~60V	0~28	1680	G600-2.8	0~600V	0~2.8	1680

### Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

1. Serial Communication cable. RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Connector	DB-9F. Shielded L=2m. RJ-45	DB-9F. Shielded L=2m, RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **G***E***NESYS**<sup>™</sup> power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

#### 3. Bus Paralleling cable

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Connectors	Cables	P/N	
2013595-1 (TYCO)	Shielded L=11cm	G/P	
4. User Manual			
Printed User Manual		G/M	

## How to order G2.7kW / 3.4kW - Power Supply Identification / Accessories

G	10 -	340		-	-
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current	:	1P208 (Single Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~340A)		3P208 (Three Phase 170~265VAC)	* User Manual & GUI are available on the website
B: Blank Front Panel	(ATE version)			3P400 (Three Phase 342~460VAC)	available on the website
				3P480 (Three Phase 342~528VAC)	P - Bus Parralleling Cable
Interface Optio	ons (Factor	y installed)	₽∕N		
		op capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	o capability - built-in	-		
RS-232/RS-485 - b	ouilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
IEEE (488.2 & SCPI con	pliant with Multi-E	Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		
Isolated Analog Cur (4mA-20mA with 60		Monitor Interface	IS420		

### Models G2.7kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-265	0~10V	0~265	2650	G80-34	0~80V	0~34	2720
G20-135	0~20V	0~135	2700	G100-27	0~100V	0~27	2700
G30-90	0~30V	0~90	2700	G150-18	0~150V	0~18	2700
G40-68	0~40V	0~68	2720	G300-9	0~300V	0~9	2700
G60-45	0~60V	0~45	2700	G600-4.5	0~600V	0~4.5	2700

#### Models G3.4kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-340	0~10V	0~340	3400	G80-42	0~80V	0~42	3360
G20-170	0~20V	0~170	3400	G100-34	0~100V	0~34	3400
G30-112	0~30V	0~112	3360	G150-22.5	0~150V	0~22.5	3375
G40-85	0~40V	0~85	3400	G300-11.5	0~300V	0~11.5	3450
G60-56	0~60V	0~56	3360	G600-5.6	0~600V	0~5.6	3360

### Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

**1. Serial Communication cable**. RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector, Communication Cable, Power Supply Connector	DB-9F. Shielded L=2m. RJ-45	DB-9F. Shielded L=2m, RJ-45
P/N	GEN/485-9	GEN/232-9

### 2. Serial link cable (Included with the power supply)

### Daisy-chain up to 31 **G**<sup>E</sup>**NESYS<sup>™</sup>** power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

### 3. Bus Paralleling cable

5. Bus i arancining cubic			
Connectors	Cables	P/N	
2013595-1 (TYCO)	Shielded L=11cm	G/P	
4. User Manual			
Drinted Hear Manual		C /NA	

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Printed User Manual G/M
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### How to order G5kW - Power Supply Identification / Accessories

G	10 -	500 -			-
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~500A)		3P400 (Three Phase 342~460VAC)	* User Manual & GUI are
B: Blank Front Panel	(ATE version)			3P480 (Three Phase 342~528VAC)	available on the website
					P - Bus Parralleling Cable
Interface Optic	ons (Factor	y installed)	P/N		
· - ·		op capability)- built-in	-		
		o capability - built-in	-		
RS-232/RS-485 - b	built-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
IEEE (488.2 & SCPI con	npliant with Multi-D	Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		
Isolated Analog Cur (4mA-20mA with 60		Ionitor Interface	IS420		

#### Models 5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Model	Voltage (VDC)	Current (A)	Power (W)
G10-500	0~10V	0~500	5000	G100-50	0~100V	0~50	5000
G20-250	0~20V	0~250	5000	G150-34	0~150V	0~34	5100
G30-170	0~30V	0~170	5100	G200-25	0~200V	0~25	5000
G40-125	0~40V	0~125	5000	G300-17	0~300V	0~17	5100
G50-100	0~50V	0~100	5000	G400-13	0~400V	0~13	5200
G60-85	0~60V	0~85	5100	G500-10	0~500V	0~10	5000
G80-65	0~80V	0~65	5200	G600-8.5	0~600V	0~8.5	5100

### Accessories

Accessories will be sent separately from the Power Supply packing, according to order.

#### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector Communication Cable Power Supply Connector	DB-9F Shielded L=2m RJ-45	DB-9F Shielded L=2m RJ-45
P/N	GEN/485-9	GEN/232-9

#### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 GENESYS<sup>™</sup> power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

#### 3. Bus Paralleling cable

Connectors	Cables	P/N	
2013595-1 (TYCO)	Shielded L=11cm	G/P	

#### 4. User Manual

Printed Oser Manual G/M
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### 5. Parallel Kit: 20kW/30kW

G/P-4U: BusBar Parallel Kit for 20 kW operation (5kW Models where Vout up to 100V) G/P-6U: BusBar Parallel Kit for 30 kW operation (5kW Models where Vout up to 100V)

## How to order G7.5kW - Power Supply Identification / Accessories

G	20 -	375 -			
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~20V)	(0~375A)		3P480 (Three Phase 342~528VAC)	* User Manual & GUI are
B: Blank Front Panel	(ATE version)				available on the website
					P - Bus Parralleling Cable
			•		
Interface Optic	ons (Factor	y installed)	P/N		
LAN ( <i>LXI</i> 1.5 complia	int with Multi-Dro	op capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	o capability - built-in	-		
RS-232/RS-485 - b	ouilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
IEEE (488.2 & SCPI con	npliant with Multi-[	Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

### Models 7.5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Model	Voltage (VDC)	Current (A)	Power (W)
G20-375	0~20V	0~375	7500	G30-250	0~30V	0~250	7500
G40-188	0~40V	0~188	7520	G60-125	0~60V	0~125	7500
G100-75	0~100V	0~75	7500	G80-94	0~80V	0~94	7500
G150-50	0~150V	0~50	7500	G200-37.5	0~200V	0~37.5	7500
G600-12.5	0~600V	0~12.5	7500	G300-25	0~300V	0~25	7500
G1500-5	0~1500V	0~5	7500	G1000-7.5	0~1000V	0~7.5	7500
Model A				Model B			

Model A

Model B

### **Accessories**

Accessories will be sent separately from the Power Supply packing, according to order.

#### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector Communication Cable Power Supply Connector	DB-9F Shielded L=2m RJ-45	DB-9F Shielded L=2m RJ-45
P/N	GEN/485-9	GEN/232-9

### 2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **G***E***NESYS**<sup>™</sup> power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

#### 3. Bus Paralleling cable

2013595-1 (TYCO) Shielded L=11cm G/P	Connectors	Cables	P/N
	2013595-1 (TYCO)	Shielded L=11cm	G/P

### 4. User Manual

Printed User Manual G/M
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#### 5. Parallel Kit: 30kW/45kW

G/P-4U: BusBar Parallel Kit for 30 kW operation

G/P-6U: BusBar Parallel Kit for 45 kW operation

### How to order GSP10kW-15kW - Power Supply Identification / Accessories

G SP	10	- 1500			
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~1500A)		3P400 (Three Phase 342~460VAC)	* User Manual & GUI are
B: Blank Front Panel (	ATE version)		V	3P480 (Three Phase 342~528VAC)	available on the website
Interface Option LAN (LXI 1.5 complian USB 2.0 compliant wi RS-232/RS-485 - bui Isolated Apples Progr	t with Multi-Dro th Multi-Drop It-in	op capability)- built-in capability - built-in	<i>P/N</i>		
Isolated Analog Progr (5V/10V Pgm/Mon wit IEEE (488.2 & SCPI comp Modbus-TCP EtherCAT Isolated Analog Currer (4mA-20mA with 600V	h 600V isolatio liant with Multi-D nt Program/Mo	on) - built-in Propcapability installed)	IEEE MDBS ECAT IS420		

### Models GSP 10kW

Model	Voltage (VDC)	Current (A)	Power (kW)	Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1000	0~10V	0~1000	10	GSP100-100	0~100V	0~100	10
GSP20-500	0~20V	0~500	10	GSP150-68	0~150V	0~68	10.2
GSP30-340	0~30V	0~340	10.2	GSP200-50	0~200V	0~50	10
GSP40-250	0~40V	0~250	10	GSP300-34	0~300V	0~34	10.2
GSP50-200	0~50V	0~200	10	GSP400-26	0~400V	0~26	10.4
GSP60-170	0~60V	0~170	10.2	GSP500-20	0~500V	0~20	10
GSP80-130	0~80V	0~130	10.4	GSP600-17	0~600V	0~17	10.2

#### Models GSP 15kW

Model	Voltage (VDC)	Current (A)	Power (kW)	Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1500	0~10V	0~1500	15	GSP100-150	0~100V	0~150	15
GSP20-750	0~20V	0~750	15	GSP150-102	0~150V	0~102	15.3
GSP30-510	0~30V	0~510	15.3	GSP200-75	0~200V	0~75	15
GSP40-375	0~40V	0~375	15	GSP300-51	0~300V	0~51	15.3
GSP50-300	0~50V	0~300	15	GSP400-39	0~400V	0~39	15.6
GSP60-255	0~60V	0~255	15.3	GSP500-30	0~500V	0~30	15
GSP80-195	0~80V	0~195	15.6	GSP600-25.5	0~600V	0~25.5	15.3

### **Accessories**

Accessories will be sent separately from the Power Supply packing, according to order.

### 1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector	DB-9F	DB-9F
Communication Cable	Shielded L=2m	Shielded L=2m
Power Supply Connector	RJ-45	RJ-45
P/N	GEN/485-9	GEN/232-9

### 2. Bus Paralleling cable (Included with the power supply)

Connectors	Cables	P/N	
2013595-1 (TYCO)	Shielded L=11cm	G/P	
3. User Manual			
Printed User Manual		G/M	

Models Series			(Std Front F (Blank Fron				GSP/ (Scalable)	GBSP e Power)
Rated Power	1kW	1.7kW	7.5kW	10kW	15kW			
Voltage Range				Current F	Range (A)			
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A	-	0~1000A	0~1500A
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A	0~375A	0~500A	0~750A
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A	0~250A	0~340A	0~510A
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A	0~188A	0~250A	0~375A
0-50V	-	-	-	-	0~100A	-	0~200A	0~300A
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A	0~125A	0~170A	0~255A
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A	0~94A	0~130A	0~195A
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A	0~75A	0~100A	0~150A
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A	0~50A	0~68A	0~102A
0-200V	-	-	-	-	0~25A	0~37.5A	0~50A	0~75A
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A	0~25A	0~34A	0~51A
0-400V	-	-	-	-	0~13A	-	0~26A	0~39A
0-500V	-	-	-	-	0~10A	-	0~20A	0~30A
0-600V	0~1.7A	0~2.8A	0~4.5A	0~5.6A	0~8.5A	0~12.5A	0~17A	0~25.5A
0-1000V	-	-	-	-	-	0~7.5A	-	-
0-1500V	-	-	-	-	-	0~5A	-	-
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	15.5/34.2	23.5/51.8

## **G***E***NESYS<sup>™</sup>** Family Output Voltage and Current

#### **AC Input Range**

Летристину								
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
1Ø, 85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A	N/A
1Ø, 170-265Vac			*	*	N/A	N/A	N/A	N/A
3P208	N/A	N/A	*	*	*	*	*	*
3P400	N/A	N/A	*	*	*	N/A	*	*
3P480	N/A	N/A	*	*	*	*	*	*

3P208 (Three Phase 170~265VAC), 3P400 (Three Phase 342~460VAC), 3P480 (Three Phase 342~528VAC)

### Also available GH 1kW/1.5kW Series Half-Rack 1kW/1.5kW in 1U Height



Voltage (V)

0~80V

0~100V

0~150V

0~300V

0~600V

Current (A)

0~12.5

0~10

0~3.5

0~1.7

0~7

Power (W)

1000

1000

1050

1050

1020

#### Models 1kW

Model	Voltage (V)	Current (A)	Power (W)
GH10-100	0~10V	0~100	1000
GH20-50	0~20V	0~50	1000
GH30-34	0~30V	0~34	1020
GH40-25	0~40V	0~25	1000
GH60-17	0~60V	0~17	1020

### GH60-17 0~60V 0~ Models 1.5kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500	GH80-19	0~80V	0~19	1520
GH20-75	0~20V	0~75	1500	GH100-15	0~100V	0~15	1500
GH30-50	0~30V	0~50	1500	GH150-10	0~150V	0~10	1500
GH40-38	0~40V	0~38	1520	GH300-5	0~300V	0~5	1500
GH60-25	0~60V	0~25	1500	GH600-2.6	0~600V	0~2.6	1560

Model

GH80-12.5

GH100-10

GH300-3.5

GH600-1.7

GH150-7

### **G**<sup>™</sup>*E***NESYS<sup>™</sup>** 1*kW* SERIES SPECIFICATIONS

[	-										
OUTPUT RATING 1.Rated output voltage(*1)	G	10-100 10	20-50 20	30-34 30	40-25 40	60-17 60	80-12.5 80	100-10	150-7 150	300-3.5 300	600-1.7 600
2.Rated output current (*2)	A	100	50	34	25	17	12.5	100	7	3.5	1.7
3.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47			00	00	100	150	500	000
2. Maximum Input current at 100% load (100/200	D) A	12.5/6.5	,	j j							
3.Power Factor (Typ)			c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, rated output (*17)	) %	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50/	1								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output volta								
2.Max. Load regulation (*7)			d output volta	-							
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C				lowing 30 min			12	,	20	100
6.Temperature stability				-	lowing 30 min			e load & temr	0		
7. Warm-up drift					-2mV over 30 r				μ.		
· · ·	V			5	5	5	<u>.</u>	5	5	5	5
8.Remote sense compensation/wire (*10)		2	2				5				
9.Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
10.Down-prog.response time:	mS	35	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	10~100% Lo	out voltage to	than 1mS for	n 0.5% of its ra r models up to	and including	r a load chang 100V 2mS fr	e 10~90% of i or models abo	rated output c	urrent. Outpu	t set-point:
12.Start up delay	Sec	Less than 6 Se					,,				
13.Hold-up time	mS	2005 010110 30			20	mstynical rat	ed output po	wer			
						,,			1		
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output curre								-
2.Max. Load regulation (*9)		0.02% of rate	d output curre	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (	(*13) mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C	<u> </u>			out current, fo						
6.Temperature stability					ut current, foll lowing 30 min				nerature		
o.remperature stability						utes wann-up					
7 10/2				$\pm 1_{-0}$ 75% of r	ated output c	irrent over 30	minutes follo	wing nower o	n		
7. Warm-up drift					ated output coutput coutput coutput current			÷.	on.		
		150V~600V: L						÷.	on.		
ANALOG PROGRAMMING AND MONITORING (IS	SOLATED FROM T	150V~600V: L HE OUTPUT)	.ess than +/-0.	15% of rated of	output current	over 30 minu	tes following	power on.	on.		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming	SOLATED FROM T	150V~600V: L HE OUTPUT) 0~100%, 0~5	ess than +/-0. V or 0~10V, us	15% of rated	Accuracy and	over 30 minu linearity: +/-0	tes following .15% of rated '	power on. Vout.	on.		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14)	SOLATED FROM T	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us	15% of rated	Accuracy and Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0	tes following .15% of rated ' .4% of rated lo	vout.	on.		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming	SOLATED FROM T   	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us /10Kohm full s	15% of rated of er selectable. er selectable. scale, user sele	Accuracy and Accuracy and Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear	tes following .15% of rated .4% of rated lo ity: +/-0.5% of	Vout. power on. Vout. frated Vout.	on		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14)	SOLATED FROM T    	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full :	15% of rated of er selectable. er selectable. scale, user selo scale, user selo	Accuracy and Accuracy and Accuracy and ectable. Accur	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear	tes following .15% of rated .4% of rated lo ity: +/-0.5% of	Vout. power on. Vout. frated Vout.	on.		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor	SOLATED FROM T      	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us /10Kohm full s /10Kohm full s V, user selecta	15% of rated of er selectable. er selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Accur r: +/-0.5% of ra	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout.	tes following .15% of rated .4% of rated lo ity: +/-0.5% of	Vout. power on. Vout. frated Vout.	n		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)	SOLATED FROM T     	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us /10Kohm full s /10Kohm full s V, user selecta	15% of rated of er selectable. er selectable. scale, user sele scale, user sele able. Accuracy	Accuracy and Accuracy and Accuracy and ectable. Accur	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout.	tes following .15% of rated .4% of rated lo ity: +/-0.5% of	Vout. power on. Vout. frated Vout.	n.		
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor	SOLATED FROM T     	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	ess than +/-0. V or 0~10V, us V or 0~10V, us /10Kohm full ! /10Kohm full ! V, user selecta V, user selecta	15% of rated of er selectable. er selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Accur :: +/-0.5% of ra :: +/-0.5% of ra	over 30 minu linearity: +/-0 acy and linear acy and linear ted Vout. ted lout.	tes following .15% of rated .4% of rated Ik ity: +/-0.5% of ity: +/-0.5% of	vout. Frated Vout. Frated lout.			
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE 1. Power supply OK #1 signal	SOLATED FROM T     	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	ess than +/-0. V or 0~10V, us V or 0~10V, us /10Kohm full ! /10Kohm full ! V, user selecta V, user selecta v, user selecta	15% of rated of er selectable. er selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy tor. Open coll	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Accur :: +/-0.5% of ra :: +/-0.5% of ra ector. Output	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Output	tes following .15% of rated 14% of rate 14\% of ra	power on. Vout. Frated Vout. Frated lout. kimum Voltag	e: 30V, Maxim		nt: 10mA.
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE 1.Power supply OK #1 signal 2. CV/CC signal	SOLATED FROM T       E OUTPUT)	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite	v or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V ot 0~10V, us V, user selecta V, user selecta v output moni or. Open colle	15% of rated of er selectable. er selectable. scale, user sele scale, user sele scale, user sele scale. Accuracy able. Accuracy tor. Open coll ctor. CC mode	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Accur :: +/-0.5% of ra :: +/-0.5% of ra ector. Output :: On. CV mode	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Outpu : Off. Maximu	tes following .15% of rated ' .4% of rated lu ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Ma: m Voltage: 30	vout. Sout. Frated Vout. Frated lout. kimum Voltag	e: 30V, Maxim	0mA.	
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	SOLATED FROM T        E OUTPUT) 	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monitt Enable/Disab	v or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full : V, user selecta v, user selecta v output moni or. Open colle ele analog pro	15% of rated d er selectable. er selectable. scale, user sele able. Accuracy able. Accuracy able. Accuracy tor. Open coll ctor. CC mode gramming col	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Accur :: +/-0.5% of ra :: +/-0.5% of ra ector. Output :: On. CV mode ntrol by electr	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Outpu :: Off. Maximu cal signal or o	tes following .15% of rated 'l .4% of rated lu ity: +/-0.5% of ity: +/-0.5% of ut Off: Off. Ma: m Voltage: 30 Iry contact. Re	vout. Jut. Frated Vout. Frated lout. Kimum Voltag V, Maximum S mote: 0~0.6V	e: 30V, Maxim Sink Current: 10 Y or short. Loca	0mA. Il: 2~30V or op	en.
ANALOG PROGRAMMING AND MONITORING (IS 1.Vout voltage programming 2.lout voltage programming (*14) 3.Vout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	SOLATED FROM T       E OUTPUT)  E	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monitt Enable/Disab analog progr	V or 0~10V, us V or 0~10V, us V or 0~10V, us V 10Kohm full : V user selecta V, user selecta V, user selecta v output moni or. Open colle ele analog pro amming contr	15% of rated d er selectable. er selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy tor. Open coll tor. Open coll ctor. CC mode gramming coi ol monitor sig	Accuracy and Accuracy and Accuracy and ectable. Accur ectable. Accur :: +/-0.5% of ra :: +/-0.5% of ra ector. Output :: On. CV mode ntrol by electr nal. Open colle	over 30 minu linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout. ted lout. On: On. Output :: Off. Maximu cal signal or c ector. Remote:	tes following .15% of rated 1 .4% of rated 10 ity: +/-0.5% of ity: +/-0.5% of ity: +/-0.5% of ity:	vout. but. frated Vout. frated lout. frated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	ie: 30V, Maximi ink Current: 10 ' or short. Loca iltage: 30V, Max	0mA. Il: 2~30V or op ximum Sink Cu	en.
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## GENESYS<sup>™</sup> 1.7kW SERIES SPECIFICATIONS

OUTPUT RATING											
	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)       2.Rated output current (*2)	V A	10 170	20 85	30 56	40 42	60 28	80	100 17	150	300 5.6	600 2.8
3.Rated output power	W	170	1700	1680	1680	1680	1680	1700	1680	1680	1680
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)				~63Hz,Single		00	80	100	130	300	000
2. Maximum Input current at 100% load (100/200)	A	20/10	ontinuous, n	ooniz,oinigie	- Hube						
3.Power Factor (Typ)			c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50/	ł								
CONSTANT VOLTAGE MODE	٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.01% of rate	d output volta	ige							
2.Max. Load regulation (*7)		0.01% of rate	d output volta	ige +2mV							
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	8	20	100
5.Temperature coefficient	PPM/°C			-	lowing 30 min						
6.Temperature stability					lowing 30 min				0.		
7. Warm-up drift			1		-2mV over 30 r		<b>.</b>		-	-	-
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time: Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
No load (*12)	mS	450 Time for outr	700	1000	1200	1500 ted output for	1700 ra load chang	2600	2900 rated output c	4600	4600
11.Transient response time	mS				models up to					unent. Outpui	i set-point:
12.Start up delay	Sec	Less than 6 Se				~					
13.Hold-up time	mS				16	ns typical, rat	ed output pov	wer			
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output curre		1 10	00	00	100	150	500	000
2.Max. Load regulation (*9)			d output curre								
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
					out current, fol						
5.Temperature coefficient	PPM/°C				ut current, foll						
6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-up	. Constant lin	e, load & temp	perature.		
7. Warm-up drift		10V~100V mo	odel: Less thar	n +/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power o	on.		
7. wann-up unit		150V~600V: L	ess than +/-0	15% of rated o	output current	over 30 minu	tes following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.15% of rated	Vout.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	out.			
3.Vout resistor programming		0~100%, 0~5	/10Kohm full								
			/ Torcommittum.	scale, user sele	ectable. Accur	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5			ectable. Accura		,				
5.Output voltage monitor		0~5V or 0~10	/10Kohm full : V, user selecta	scale, user sele able. Accuracy	ectable. Accura :: +/-0.5% of ra	acy and linear ted Vout	,				
		0~5V or 0~10	/10Kohm full : V, user selecta	scale, user sele able. Accuracy	ectable. Accura	acy and linear ted Vout	,				
5.Output voltage monitor		0~5V or 0~10	/10Kohm full : V, user selecta	scale, user sele able. Accuracy	ectable. Accura :: +/-0.5% of ra	acy and linear ted Vout	,				
5.Output voltage monitor 6.Output current monitor (*14)		0~5V or 0~10 0~5V or 0~10	/10Kohm full s IV, user selecta IV, user selecta	scale, user sele able. Accuracy able. Accuracy	ectable. Accura :: +/-0.5% of ra :: +/-0.5 of rate	acy and linear ted Vout d lout.%.	ity: +/-0.5% of	frated lout.	e: 30V, Maximi	um Sink Currei	nt: 10mA.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	  [)	0~5V or 0~10 0~5V or 0~10 Power supply	/10Kohm full s IV, user selecta IV, user selecta V, output moni	scale, user sele able. Accuracy able. Accuracy tor. Open colle	ectable. Accura :: +/-0.5% of rate :: +/-0.5 of rate ector. Output	acy and linear ted Vout d lout.%. On: On. Outpu	ity: +/-0.5% of	f rated lout. ximum Voltag	e: 30V, Maximi iink Current: 10		nt: 10mA.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal	  [) 	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite	/10Kohm full : IV, user selecta IV, user selecta V, output moni or. Open colle	scale, user sele able. Accuracy able. Accuracy tor. Open colle ctor. CC mode	ectable. Accura :: +/-0.5% of rate :: +/-0.5 of rate ector. Output : On. CV mode	ted Vout d lout.%. On: On. Outpu : Off. Maximu	ity: +/-0.5% of it Off: Off. Max m Voltage: 30	f rated lout. kimum Voltag V, Maximum S	-	)mA.	
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	  [) 	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra	/10Kohm full : W, user selecta W, user selecta y output moni or. Open colle ole analog pro amming contr	scale, user sele able. Accuracy able. Accuracy tor. Open coll- ctor. CC mode gramming co ol monitor sig	ectable. Accura : +/-0.5% of rate : +/-0.5 of rate ector. Output ( : On. CV mode ntrol by electri nal. Open colle	ted Vout d lout.%. Dn: On. Outpu : Off. Maximu cal signal or d cctor. Remote:	it Off: Off. May m Voltage: 30' ry contact. Re On. Local: Off.	f rated lout. kimum Voltag V, Maximum S rmote: 0~0.6V Maximum Vo	ink Current: 10 or short. Loca Itage: 30V, Max	0mA. l: 2~30V or op kimum Sink Cu	en.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	     	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progr Enable/Disab	/10Kohm full : IV, user selecta IV, user selecta y output moni or. Open colle ole analog pro amming contr ole PS output h	scale, user sele able. Accuracy able. Accuracy tor. Open colli ctor. CC mode gramming con ol monitor sig by electrical si	ectable. Accur: : +/-0.5% of ra : +/-0.5 of rate ector. Output t : On. CV mode ntrol by electri nal. Open colle gnal or dry col	cty and linear ted Vout d lout.%. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V (	it Off: Off. Max m Voltage: 30 ry contact. Re On. Local: Off. or short, 2~30	f rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use	ink Current: 10 ' or short. Loca Itage: 30V, May er selectable lo	0mA. l: 2~30V or op kimum Sink Cu	en.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	     	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disate analog progr. Enable/Disate Enable/Disate	/10Kohm full : IV, user selecta IV, user selecta y output moni or. Open colle ole analog pro amming contr ole PS output I ole PS output I	scale, user sele able. Accuracy able. Accuracy tor. Open colli ctor. CC mode gramming cor ol monitor sig by electrical si by electrical si	ectable. Accur: : +/-0.5% of rate : +/-0.5 of rate ector. Output t : On. CV mode ntrol by electri nal. Open colle gnal or dry coi gnal or dry coi	cty and linear ted Vout d lout.%. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V ( ntact. Remote	it Off: Off. Maa m Voltage: 30 ry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or sho	f rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3	ink Current: 10 or short. Loca Itage: 30V, Max er selectable lo 0V or open.	0mA. l: 2~30V or op kimum Sink Cu ogic.	en.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	     	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disate analog progra Enable/Disate Enable/Disate Two open dra	/10Kohm full : IV, user selecta IV, user selecta y output moni or. Open colle ole analog pro amming contr ole PS output I ole PS output I	scale, user sele able. Accuracy able. Accuracy tor. Open colli ctor. CC mode gramming co ol monitor sig oy electrical si oy electrical si able signals. N	ectable. Accur: : +/-0.5% of rate : +/-0.5 of rate ector. Output ( : On. CV mode htrol by electri nal. Open colle gnal or dry col gnal or dry col Maximum volta	cy and linear ted Vout d lout.%. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V o ntact. Remote age 25V, Maxin	It Off: Off. May m Voltage: 30 ry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or shi mum sink curr	f rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 rent 100mA (S	ink Current: 10 ' or short. Loca Itage: 30V, Max er selectable lo :0V or open. hunted by 27V	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	     	0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progr. Enable/Disab Enable/Disab Two open dra Maximum lo	/10Kohm full : W, user selecta W, user selecta voutput moni or. Open colle ble analog pro amming contr ble PS output H ble PS output H ow level inpu	scale, user sele able. Accuracy able. Accuracy tor. Open colli- ctor. CC mode gramming cor ol monitor sig oy electrical si oy electrical si able signals. N able signals. N	ectable. Accur: : +/-0.5% of rate ector. Output ( : On. CV mode ntrol by electri nal. Open colle gnal or dry cou daximum volt: 0.8V,Minimur	acy and linear ted Vout d lout.%. Dn: On. Outpu : Off. Maximu cal signal or d ctor. Remote: thact. 0~0.6V of thact. 0~0.6V of thact. Remote age 25V, Maxii n high level i	it Off: Off. May m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sh num sink curr nput voltag.	frated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Uss ort. Local: 2~3 rent 100mA (S e = 2.5V, Maa	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 10V or open. hunted by 27V kimum high l	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	     	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Moniti Enable/Disab Enable/Disab Two open dra Maximum lu edge trigge	/10Kohm full : W, user selecta W, user selecta y output moni or. Open colle ple analog pro amming contr ble PS output I ble PS output I ain programm ow level inpp r: tw=10us m	scale, user sele able. Accuracy able. Accuracy tor. Open colli- ctor. CC mode gramming cor ol monitor sig oy electrical si oy electrical si able signals. N able signals. N ti voltage = C ninimum. Tr,T	ectable. Accur: : +/-0.5% of rate : +/-0.5 of rate ector. Output 1 : On. CV mode ntrol by electri nal. Open colle gnal or dry coi gnal or dry coi gnal or dry coi Jaximum volta. .8V,Minimur f=1us Maxim	acy and linear ted Vout d lout.%. Dn: On. Outpu : Off. Maximu cal signal or d ctor. Remote: thact. 0~0.6V of thact. 0~0.6V of thact. Remote age 25V, Maxii n high level i	it Off: Off. May m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sh num sink curr nput voltag.	frated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Uss ort. Local: 2~3 rent 100mA (S e = 2.5V, Maa	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 10V or open. hunted by 27V kimum high l	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal	      	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disab analog progr Enable/Disab Two open dra Maximum k edge trigge By electrical	/10Kohm full : W, user selecta W, user selecta y output moni or. Open colle ple analog pro amming contr ble PS output I ble PS output I ain programm ow level inpp r: tw=10us m	scale, user sele able. Accuracy able. Accuracy tor. Open coll- ctor. CC mode gramming cor ol monitor sig py electrical si able signals. N able signals. N it voltage = ( inimum. Tr,1 iv/2~30V or dr	ectable. Accur: : +/-0.5% of rate : +/-0.5 of rate ector. Output 1 : On. CV mode ntrol by electri nal. Open colle gnal or dry coi gnal or dry coi gnal or dry coi Jaximum volta. .8V,Minimur f=1us Maxim	acy and linear ted Vout d lout.%. Dn: On. Outpu : Off. Maximu cal signal or d ctor. Remote: thact. 0~0.6V of thact. 0~0.6V of thact. Remote age 25V, Maxii n high level i	it Off: Off. May m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sh num sink curr nput voltag.	frated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Uss ort. Local: 2~3 rent 100mA (S e = 2.5V, Maa	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 10V or open. hunted by 27V kimum high l	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA
5.Output voltage monitor 6.Output current monitor (*14) <b>SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT</b> 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	          	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monitt Enable/Disab analog progr Enable/Disab Two open dra Maximum k edge trigge By electrical	/10Kohm full s W, user selecta W, user selecta y output moni or. Open colle ole analog pro ole analog pro ole PS output k ain programm ow level inpu r: tw=10us m Voltage: 0~0.6	scale, user sele able. Accuracy able. Accuracy tor. Open coll- ctor. CC mode gramming cor ol monitor sig py electrical si able signals. N able signals. N it voltage = ( inimum. Tr,1 iv/2~30V or dr	ectable. Accur: : +/-0.5% of rate : +/-0.5 of rate ector. Output 1 : On. CV mode ntrol by electri nal. Open colle gnal or dry coi gnal or dry coi gnal or dry coi Jaximum volta. .8V,Minimur f=1us Maxim	acy and linear ted Vout d lout.%. Dn: On. Outpu : Off. Maximu cal signal or d ctor. Remote: thact. 0~0.6V of thact. 0~0.6V of thact. Remote age 25V, Maxii n high level i	it Off: Off. May m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sh num sink curr nput voltag.	frated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Uss ort. Local: 2~3 rent 100mA (S e = 2.5V, Maa	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 10V or open. hunted by 27V kimum high l	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA.
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	            	0~5V or 0~10 0~5V or 0~10 CV/CC Monitic Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge By electrical V 4~5V=OK, 0V	/10Kohm full s W, user selecta W, user selecta y output monio or. Open colle ale analog pro amming contr ble PS output H ain programm ow level inpu r: tw=10us m Voltage: 0~0.6 / (500ohm imp	scale, user sele able. Accuracy able. Accuracy tor. Open coll- ctor. CC mode gramming cor ol monitor sig py electrical si oy	ectable. Accur: : +/-0.5% of rate ector. Output t : On. CV mode throl by electrin al. Open colle gnal or dry con gnal or dry con Jaximum volt. D.8V,Minimum ry contact.	acy and linear ted Vout d lout.%. Dn: On. Outpu- context of Maximu cal signal or d ctor. Remote: ntact. 0~0.6V of ttact. Remote age 25V, Maxin n high level i uum, Min del	tt Off: Off. Max m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or shn mum sink curr input voltag ay between	rated lout. ximum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Uss ort. Local: 2~3 rent 100mA (S e = 2.5V, Maa 2 pulses 1ms	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 10V or open. hunted by 27V kimum high l	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA
5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	 )       -	0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab Enable/Disab Two open dra Maximum Ib edge trigge By electrical V 4~5V=OK, 0V Possible. Up 1	/10Kohm full s W, user selecta W, user selecta y output monio or. Open colle ole analog pro amming contr ole PS output b ole PS output b ain programm ow level inpu r: tw=10us m Voltage: 0~0.6 / (500ohm imp	scale, user sele able. Accuracy able. Accuracy tor. Open coll- ctor. CC mode gramming co- ol monitor sig by electrical si able signals. N it voltage = ( inimum. Tr, iv/2~30V or dr bedance)=Fail units in Master	ectable. Accur: : +/-0.5% of rate ector. Output : : On. CV mode mal. Open colle gnal or dry cor gnal or dry cor Maximum volta .8%/Minimum f=1us Maxim y contact.	cy and linear ted Vout d lout.%. Dn: On. Outpu: c Off. Maximu cal signal or d cctor. Remote: tact. 0~.6.0 V tact. Remote age 25V, Maxin h high level i uum, Min del Refer to instru	tt Off: Off. Max m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or shn mum sink curr input voltag ay between	rated lout. ximum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Uss ort. Local: 2~3 rent 100mA (S e = 2.5V, Maa 2 pulses 1ms	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 10V or open. hunted by 27V kimum high l	0mA. l: 2~30V or op kimum Sink Cu ogic. r zener)	en. rrent: 10mA
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### GENESYS<sup>™</sup> 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection					ower supply c C input recycl							
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input rec	ycle in autosta	art mode, by	OUTPUT butto	on, by rear par	nel or by comr		
<ol><li>Over -voltage programming rang</li></ol>		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming accu				d output volta								
5.Output under voltage limit (UVL)					out below limit			programming	. Preset by fro	nt panel or co	mmunicatior	port.
6.Over temperature protection					to recovery by	autostart mo	de.					
7. Output under voltage limit (UVL)			,		ut below limit.							
8. Output under voltage protection	n (UVP)				ut below limit. OUTPUT butt				e condition. R	eset by AC inp	out recycle in	autostart
FRONT PANEL												
1.Control functions			Multiple opti	ons with 2 End	coders							
			Vout/lout/Po	wer Limit mar	nual adjust							
			OVP/UVL/UV	<sup>o</sup> manual adju	ist							
			Protection Fu	nctions - OVP	, UVL,UVP, Fold	back, OCL, EN	NA, ILC					
					- Selection of	LAN, IEEE, RS23	32,RS485,USB	or Optional c	ommunicatio	n interface.		
			Output ON/C									
					- Selection of							
					Selection Vol				0K programn	ning		
					<ul> <li>Selection of \</li> </ul>			5V/10V.				
2.Display					5% of rated ou							
					% of rated out							
3.Front Panel Buttons Indications			OUTPUT ON,	ALARM, PREV	IEW, FINE, COM	MUNICATION	I, PROTECTIO	N,CONFIGUR/	TION, SYSTEM	A, SEQUENCER	ł.	
4. Front Panel Display Indications			Voltage, Curr (communicat	ent, Power, C\ ion), RS/USB/I	/, CC, CP, Exter LAN/IEEE comi	nal Voltage, Ex nunication, Tr	kternal Currer igger, Load/S	nt, Address, LF tore Cell.	P, Autostart, S	afetstart, Folo	lback V/I, Ren	note
ENVIRONMENTAL CONDITIONS		-										
1.Operating temperature			0~50°C, 1009	load.								
2.Storage temperature			-30~85°C									
3.Operating humidity		%	20~90% RH (	no condensat	ion)							
4.Storage humidity		%		io condensati								
5.Altitude					), output curre		(100		00m - h			06+ (12000)
S.Altitude			operating: it	00011 (200011	i), output curre	nit defailing 2%	%/100111011a	derating i C/	100111 above zi	000m. Non op	erating: 4000	011 (12000111)
MECHANICAL												
1.Cooling			Forced air co	oling by interr	nal fans. Air flo	w direction: fr	om Front par	el to power si	upply rear			
2.Weight		kg	Less than 5kg									
3.Dimensions (WxHxD)		mm			(Without bu (Including b				outline draw	ing).		
4.Vibration			MIL-810G, me	thod 514.6, P	rocedure I, tes	t condition An	nex C - 2.1.3.1					
5.Shock					mSec. Unit is u							
SAFETY/EMC						-						
	Safety G1kW/G1.7kW		UL61010-1. C	A22.2 No.610	10-1, IEC61010	-1, EN61010-1.						
	G1kW/1.7kW		Vout≤50V Mo	dels: Output,	J1, J2, J3, J4, J5 tput & J8 (sen	i, J6, J7, J8 (sen	nse) & J9 (com	munication o	ptions) are No	n Hazardous.	) are Non Haz	ardous
	C11-W/1 71-W		Vout≤50V M Input - Grou 60V≤Vout≤1 Output & J8 Output & J8	odels: Input nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 500V Models	- Output & J8 1min. Input – Outpu J2, J3, J4, J5 pund: 1500VD	(sense), J1, , ut & J8 (sense , J6, J7 & J9 IC 1min, Inpu	J2, J3, J4, J4 e), J1, J2, J3 (communica t - Ground: 2	5, J6, J7 & J9 , J4, J5, J6, J tion options) 835VDC 1mi 3, J4, J5, J6, J	(communica 7 & J9 (comr 850VDC 1m n. J7 and J9 (co	nunication options) nunication op in.	: 4242VDC 1 ptions): 4242	min, VDC 1min,
1.2 Withstand voltage	G1kW/1.7kW		Output & J8	(sense) - Gro	J2, J3, J4, J5 ound: 2500VE	, J6, J7 & J9	(communica	tion options)	1275VDC 1	nin.		-2000 11111
1.2 Withstand voltage	GIKW/1.7KW		Output & J8 Output & J8 Input - Grou	(sense) - Gro nd: 2835VDC	J2, J3, J4, J5 ound: 2500VE	, J6, J7 & J9 IC 1min.	(communica	tion options)	1275VDC 1	min.		
1.3 Insulation resistance	GIKW/1./KW		Output & J8 Output & J8 Input - Grou 100Mohm at	(sense) - Gro nd: 2835VDC 25°C, 70%RH.	J2, J3, J4, J5 bund: 2500VE 1min. Output to Gro	, J6, J7 & J9 IC 1min.	(communica		: 1275VDC 11	nin.		
-	GIKW/1./KW		Output & J8 Output & J8 Input - Grou 100Mohm at IEC/EN61204	(sense) - Gro nd: 2835VDC 25°C, 70%RH. 3 Industrial e	J2, J3, J4, J5 ound: 2500VE 1min.	, J6, J7 & J9 IC 1min. und 500VDC nnex H table F	(communica	15-A, VCCI-A .		nin.		

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50°C NOTES: \*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage. \*2: Minimum current is guaranteed to maximum 0.2% of rated output current. \*3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz). \*4: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m. \*5: Not including EMI filter inrush current, less than 0.2mSec. \*6: 85–132Vac or 170–265Vac. Constant load. \*7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense. \*8: For 100-150V models: Measured with JETA RC-913TO (1:1) probe. For 200~600V models: Measured with 100:1 probe. \*9: For load voltage change, equal to the unit voltage rating, constant input voltage. \*10: The maximum voltage on the power supply terminals must not exceed the rated voltage. \*11: From 10% to 90% of Rated Output Voltage. \*11: From 10% to 90% of Rated Output Voltage. \*12: From 90% to 10% of Rated Output Voltage. \*13: For 10V model, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz. \*14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift. \*15: Max. ambient temperature for using IEEE is 40°C. \*17: Ta=25°C, rated output power.

## GENESYS<sup>™</sup> 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING 1.Rated output voltage(*1)		6	10.205	20.125	20.00	40.60	CO 45	00.24	100.07	150.10	200.0	600.45
		G	10-265 10	20-135 20	30-90 30	40-68 40	60-45 60	80-34 80	100-27 100	150-18 150	300-9 300	600-4.5 600
2.Rated output current (*2)		A	265	135	90	68	45	34	27	130	9	4.5
3.Rated output power		w	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
		-			-	63Hz (Covers 2				1.50	500	
1.Input voltage/freq. 3 phase, 3 w	iro ( Ground (*4)					63Hz (Covers		/ac)				
Timput voitage/freq. 5 priase, 5 w	ire + Ground (*4)							40/460/480Va	ic)			
	2.01 2001/ 1.1				~265Vac, 47~	63Hz (Covers 2	200/208/230/2	240Vac)				
	3-Phase, 200V models: 3-Phase, 400V models:		10A @ 200Va 5.5A @ 380Va			-						
	3-Phase, 480V models:		5.5A @ 380Va									
	1-Phase, 200V models:		16.5A @ 200\									
3.Power Factor (Typ)			For 3-Phase:	0.94 @ 200/38	0Vac, rated o	utput power.						
				0.99 @ 200Vac								
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50/									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volta								
2.Max. Load regulation (*8)				d output volta								
3.Ripple and noise (p-p, 20MHz) (	*9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9) 5.Temperature coefficient		mV	8		10 ut voltago, fo	12 Ilowing 30 mir	15	15	15	20	60	100
6.Temperature stability								p. p. Constant lir	ne load & tem			
7. Warm-up drift								wing power of		ip.		
8.Remote sense compensation/w	ire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	<u> </u>	mS	30	30	30	30	50	50	50	50	50	100
10 Down prog rosponso timo:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11.Transient response time		mS	Time for out	out voltage to	recover with	in 0.5% of its r	ated output fo	or a load chang	ge 10~90% of	frated output	current. Out	put set-point:
		Sec	10~100%, Lo Less than 6 Se		s than ImS, fo	r moaels up to	o and includin	g 100V. 2mS, f	or models ab	ove IUUV.		
12.Start up delay			Less than 6 S	ec								
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr								
2.Max. Load regulation (*13)				d output curr								
3.Ripple r.m.s. @ rated voltage. 3-I		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-F	Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C						inutes warm-u nutes warm-up				
6.Temperature stability								p. Constant lir		nerature		
								0 minutes follo				
7. Warm-up drift								utes following				
ANALOG PROGRAMMING AND M						·						
1.Vout voltage programming				V or 0~10V us	ser selectable	Accuracy and	linearity·+/-	0.15% of rated	Vout			
2.lout voltage programming (*15)	)											
	)			V or 0~10V, us	ser selectable	. Accuracy and	1 linearity: +/-	0.4% of rated I	out.			
3.Vout resistor programming	)					. Accuracy and ectable. Accur		rity: +/-0.5% o				
			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accu	racy and linea		f rated Vout.			
3.Vout resistor programming			0~100%, 0~5 0~100%, 0~5	/10Kohm full	scale, user sel scale, user sel	ectable. Accui ectable. Accui	racy and linea	rity: +/-0.5% o	f rated Vout.			
3.Vout resistor programming 4.lout resistor programming (*15)			0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	/10Kohm full /10Kohm full	scale, user sel scale, user sel able. Accurac	ectable. Accur ectable. Accur y: +/-0.5%.	racy and linea	rity: +/-0.5% o	f rated Vout.			
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor	)		0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	/10Kohm full /10Kohm full IV, user select	scale, user sel scale, user sel able. Accurac	ectable. Accur ectable. Accur y: +/-0.5%.	racy and linea	rity: +/-0.5% o	f rated Vout.			
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15)	)		0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	/10Kohm full /10Kohm full IV, user select IV, user select	scale, user sel scale, user sel able. Accurac able. Accurac	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%.	racy and linea racy and linea	rity: +/-0.5% o rity: +/-0.5% o	f rated Vout. f rated lout.	ge: 30V, Maxin	num Sink Cu	rrent: 10mA.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA	)	   T)	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	/10Kohm full /10Kohm full IV, user select IV, user select y output moni	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output	racy and linea racy and linea On: On. Outp	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma	f rated Vout. f rated lout. ximum Volta	ge: 30V, Maxin Sink Current:		rrent: 10mA.
3.Vout resistor programming 4.Iout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	) ITED FROM THE OUTPU	  T) 	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monit Enable/Disab	710Kohm full 710Kohm full 70, user select 70,	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col ctor. CC mode gramming co	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electi	racy and linea racy and linea On: On. Outp e: Off. Maximi rical signal or	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. Ro	f rated Vout. f rated lout. ximum Volta IV, Maximum emote: 0~0.6	Sink Current: V or short. Loc	10mA. :al: 2~30V or	open.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	) ITED FROM THE OUTPU	  T)   	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monit Enable/Disat analog progr	/10Kohm full /10Kohm full /V, user select /V, user select / / output moni or. Open colle ole analog pro amming contr	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col ctor. CC mode gramming co ol monitor sig	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by elector nal. Open colle	racy and linea racy and linea On: On. Outp e: Off. Maximu rical signal or ector. Remote:	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. Ri On. Local: Off.	f rated Vout. f rated lout. ximum Volta IV, Maximum emote: 0~0.6 Maximum Vo	Sink Current: V or short. Loc Itage: 30V, Max	10mA. :al: 2~30V or ximum Sink C	open.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	) ITED FROM THE OUTPU	   T)   	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disat analog progr Enable/Disat	/10Kohm full /10Kohm full IV, user select. V, user select y output moni or. Open colle ole analog pro amming contr	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col ctor. CC mode gramming co ol monitor sig by electrical s	ectable. Accui ectable. Accui y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod- introl by electri nal. Open colle ignal or dry co	racy and linea racy and linea On: On. Outp e: Off. Maximu rical signal or ector. Remote: ontact. 0~0.6V	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 3C dry contact. R On. Local: Off. o r short, 2~3C	f rated Vout. f rated lout. ximum Volta VV, Maximum emote: 0~0.6 Maximum Vo VV or open. US	Sink Current: V or short. Loc Itage: 30V, Max ser selectable	10mA. :al: 2~30V or ximum Sink C	open.
3.Vout resistor programming 4.Jout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	) ITED FROM THE OUTPU	   T)    	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disat analog progr Enable/Disat Enable/Disat	/10Kohm full /10Kohm full IV, user select. v, user select v output moni or. Open colle ole analog pro amming contr ole PS output l	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col ctor. CC mode gramming co ol monitor sig by electrical s	ectable. Accui ectable. Accui y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electri nal. Open colle ignal or dry co ignal or dry co	racy and linea racy and linea On: On. Outp e: Off. Maximu rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 3C dry contact. R On. Local: Off. o r short, 2~3C e: 0~0.6V or sh	f rated Vout. f rated lout. ximum Volta IV, Maximum emote: 0~0.6 Maximum Vo IV or open. U: iort. Local: 2~	Sink Current: V or short. Loc Itage: 30V, Max ser selectable 30V or open.	10mA. :al: 2~30V or ximum Sink C logic.	open.
3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	) ITED FROM THE OUTPU	   T)   	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disat Enable/Disat Enable/Disat	/10Kohm full /10Kohm full // 10Kohm full //, user select. //, user select //,	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col ctor. CC mod- gramming co ol monitor sig by electrical s by electrical s able signals.	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod mtrol by electtr agnal or dry co ignal or dry co Maximum volt	on: On. Outp e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V intact. Remot tage 25V, Max	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. Ri or short, 2~33 e: 0~0.6V or sh imum sink cur	f rated Vout. f rated lout. ximum Volta IV, Maximum emote: 0~0.6 Maximum Vo IV or open. U: iort. Local: 2~ rent 100mA (	Sink Current: V or short. Loc Itage: 30V, Maz ser selectable 30V or open. Shunted by 27	10mA. :al: 2~30V or ximum Sink C logic. 'V zener)	open. urrent: 10mA.
3.Vout resistor programming 4.Jout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	) TED FROM THE OUTPU	   T)    	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disat Enable/Disat Enable/Disat Enable/Disat Two open dr: Maximum li	/10Kohm full /10Kohm full W, user select. W, user select. y output moni or. Open colle ole analog pro ammig contr ole PS output 1 ole PS output 1 ole PS output 2 output 2 out	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col cctor. CC mode gramming co ol monitor sig by electrical s by electrical s able signals. ut voltage =	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electr nal. Open colle ignal or dry co ignal or dry co Maximum volt 0.8V.Minimu	racy and linea racy and linea on: On. Outp e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max m high level	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 3C dry contact. R On. Local: Off. 'or short, 2~3C e: 0~0.6V or sh imum sink cur input voltag	f rated Vout. f rated lout. ximum Volta V, Maximum emote: 0~0.6 Maximum Vo V or open. U: iort. Local: 2~ iort. Local: 2~ rent 100mA ( re= 2.5V. Ma	Sink Current: V or short. Loc Itage: 30V, Mai ser selectable 30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or ximum Sink C logic. 'V zener)	open. urrent: 10mA.
3.Vout resistor programming 4.Jout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	) TED FROM THE OUTPU	   T)     -	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disat Enable/Disat Enable/Disat Enable/Disat Two open drr. Maximum le edge trigge	/10Kohm full /10Kohm full W, user select. W, user select. y output moni or. Open colle ole analog pro ammig contr ole PS output 1 ole PS output 1 ole PS output 2 output 2 out	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col cctor. CC mode creator. CC mode gramming co ol monitor sig by electrical s by electrical s by electrical s able signals. ut voltage = ninimum. Tr,	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electr nal. Open colle ignal or dry co ignal or dry co Maximum voll Maximum voll Tf=1us Maxir	racy and linea racy and linea on: On. Outp e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max m high level	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. Ri or short, 2~33 e: 0~0.6V or sh imum sink cur	f rated Vout. f rated lout. ximum Volta V, Maximum emote: 0~0.6 Maximum Vo V or open. U: iort. Local: 2~ iort. Local: 2~ rent 100mA ( re= 2.5V. Ma	Sink Current: V or short. Loc Itage: 30V, Mai ser selectable 30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or ximum Sink C logic. 'V zener)	open. urrent: 10mA.
3.Vout resistor programming 4.Jout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7.Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	) TED FROM THE OUTPU	   T)     -	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat By electrical	/10Kohm full /10Kohm full //0Kohm full //U, user select. ////////////////////////////////////	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col cortor. CC mode gramming co ol monitor sig by electrical s by electrical s by electrical s inable signals. ut voltage = inimum. Tr, 50/2~30V or d	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electr nal. Open colle ignal or dry co Maximum volt 0.8V, Minimu 0.8V, Minimu ry contact.	racy and linea racy and linea on: On. Outp e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max m high level	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 3C dry contact. R On. Local: Off. 'or short, 2~3C e: 0~0.6V or sh imum sink cur input voltag	f rated Vout. f rated lout. ximum Volta V, Maximum emote: 0~0.6 Maximum Vo V or open. U: iort. Local: 2~ iort. Local: 2~ rent 100mA ( re= 2.5V. Ma	Sink Current: V or short. Loc Itage: 30V, Mai ser selectable 30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or ximum Sink C logic. 'V zener)	open.
3.Vout resistor programming 4.Jout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_OUT/PS_OK #2 signal	) TED FROM THE OUTPU	   T)     -	0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat By electrical	/10Kohm full /10Kohm full IV, user select: V, user select: y output moni or. Open colle ble analog pro amming contr ble PS output l ble PS output l ble PS output l ain programm pow level inpu r: tw=10us n Voltage: 0~0.0	scale, user sel scale, user sel able. Accurac able. Accurac itor. Open col cortor. CC mode gramming co ol monitor sig by electrical s by electrical s by electrical s inable signals. ut voltage = inimum. Tr, 50/2~30V or d	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electr nal. Open colle ignal or dry co Maximum volt 0.8V, Minimu 0.8V, Minimu ry contact.	racy and linea racy and linea on: On. Outp e: Off. Maxim rical signal or ector. Remote: ontact. 0~0.6V ontact. Remot tage 25V, Max m high level	rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 3C dry contact. R On. Local: Off. 'or short, 2~3C e: 0~0.6V or sh imum sink cur input voltag	f rated Vout. f rated lout. ximum Volta V, Maximum emote: 0~0.6 Maximum Vo V or open. U: iort. Local: 2~ iort. Local: 2~ rent 100mA ( re= 2.5V. Ma	Sink Current: V or short. Loc Itage: 30V, Mai ser selectable 30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or ximum Sink C logic. 'V zener)	open. urrent: 10mA.
3.Vout resistor programming 4.Jout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1.Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog cignal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	) TED FROM THE OUTPU	   T)     -	0~100%, 0~5 0~100%, 0~5 0~5V or 0~1C 0~5V or 0~1C 0~5V or 0~1C Power supply CV/CC Monit Enable/Disat Enable/Disat Two open dr. Maximum I edge trigge By electrical 4~5V=OK, 0V	/10Kohm full /10Kohm full W, user select: W, user select: y output moni or. Open colle ble analog pro amming contr ble PS output I ele PS output I ain programm w level inps r: tw=10us Voltage: 0~0.4 (500ohm imp	scale, user sel scale, user sel able, Accurac able, Accurac able, Accurac itor. Open col ctor. CC mode gramming co ol monitor sig by electrical s by electrica	ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod introl by electr nal. Open colle ignal or dry co Maximum volt 0.8V, Minimu Tf=1us Maxir ry contact.	acy and linea acy and linea On: On. Outpet e: Off. Maximurical signal or actor. Remote: ontact. Remot tage 25V, Max m high level num, Min de	rity: +/-0.5% o rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. R: On. Local: Off. or short, 2~30 e: 0~0.6% or sh imum sink cur input voltag lay between	f rated Vout. f rated lout. ximum Volta V, Maximum emote: 00.6 Maximum Vo IV or open. U: fort. Local: 2-2 rent 100mA ( e = 2.5V, Ma 2 pulses 1m	Sink Current: V or short. Loc Itage: 30V, Mai ser selectable 30V or open. Shunted by 27 aximum high	10mA. :al: 2~30V or ximum Sink C logic. 'V zener)	open. urrent: 10mA.
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## GENESYS<sup>™</sup> 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power		W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
						63Hz (Covers						
1.Input voltage/freq. 3 phase, 3 wi	re + Ground (*4)					-63Hz (Covers						
						63Hz (Covers			ac)			
	3-Phase, 200V models:		12.5A @ 200V		~265VaC, 4/~	63Hz (Covers	200/208/230/2	240VaC)				
	3-Phase, 400V models:		6.5A @ 380Va									
2. Maximum Input current at 100% load	3-Phase, 480V models:	1	6.5A @ 380Va									
	1-Phase, 200V models:		21A @ 200Vad									
			For 3-Phase:		0Vac, rated o	utput power.						
3.Power Factor (Typ) -					, rated outpu							
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50A	۱								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate			40	00	00	100	150	500	000
2.Max. Load regulation (*8)			0.01% of rate									
3.Ripple and noise (p-p, 20MHz) (	(9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	2)	mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C			1	llowing 30 mi		1	15	20		100
5.Temperature stability						llowing 30 mi			ne load & ten	20		
7. Warm-up drift						+2mV over 30			· · · · · · · · · · · · · · · · · · ·			
8.Remote sense compensation/wi	re (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
	101000 (12)								1	f rated output		1
11.Transient response time		mS	10~100%. Lo	cal sense. Les	s than 1mS. fo	in 0.5% of its r or models up t	a and includin	g 100V. 2mS.	or models ab	i rateu output iove 100V.	current. Outp	ut set-point
12.Start up delay		Sec	Less than 6 Se					<u>j ····, ·</u>				
						1	1			1	1	1
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
I.Max. Line regulation (*7)			0.05% of rate									
2.Max. Load regulation (*13)			0.08% of rate			1						
3.Ripple r.m.s. @ rated voltage. 3-F		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-F	Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C				put current, fo						
•						out current, fol						
6.Temperature stability						llowing 30 mi						
7. Warm-up drift						rated output				on.		
·····			150V~600V: L	.ess than +/-0	.15% of rated	output currer	it over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND M	ONITORING (ISOLATEI	D FROM	THE OUTPUT)									
1.Vout voltage programming				V or 0~10V, us	ser selectable	. Accuracy and	linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*15)						. Accuracy and						
3.Vout resistor programming						lectable. Accu						
4.lout resistor programming (*15)						lectable. Accu						
5.Output voltage monitor			0~5V or 0~10									
6.Output current monitor (*15)			0~5V or 0~10			/						
				in aber bereet		<i>j</i> : <i>i</i> , <i>o</i> . <i>o</i> , <i>o</i> .						
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPU	· ·				-						
1. Power supply OK #1 signal			,							ge: 30V, Maxir		rent: 10mA.
2. CV/CC signal										Sink Current:		
3. LOCAL/REMOTE Analog control										V or short. Loo		
4. LOCAL/REMOTE Analog signal										ltage: 30V, Ma		urrent: 10mA
5. ENABLE/DISABLE signal										ser selectable	logic.	
6. INTERLOCK (ILC) control			Enable/Disab					e: 0~0.6V or sl	nort. Local: 2~	-30V or open.		
7. Programmed signals			The second second									
an rogrammed signals			· · ·	1 3		Maximum vol	tage 25V, Max			Shunted by 27		
	als		Maximum lo	ow level inpu	ut voltage =	Maximum vol 0.8V, Minimu	tage 25V, Max Im high level	input voltad	ae = 2.5V, Ma	aximum high		= 5V positi
8. TRIGGER IN / TRIGGER OUT sign	als		Maximum lo edge trigge	ow level inpu r: tw=10us n	ut voltage = ninimum. Tr,	Maximum vol 0.8V,Minimu Tf=1us Maxii	tage 25V, Max Im high level	input voltad	ae = 2.5V, Ma	aximum high		= 5V positi
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal	als		Maximum lo edge trigge By electrical V	ow level inpu r: tw=10us n /oltage: 0~0.6	ut voltage = ninimum. Tr, 6V/2~30V or d	Maximum vol 0.8V,Minimu Tf=1us Maxii Iry contact.	tage 25V, Max Im high level	input voltad	ae = 2.5V, Ma	aximum high		= 5V positi <sup>,</sup>
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal	als		Maximum lo edge trigge	ow level inpu r: tw=10us n /oltage: 0~0.6	ut voltage = ninimum. Tr, 6V/2~30V or d	Maximum vol 0.8V,Minimu Tf=1us Maxii Iry contact.	tage 25V, Max Im high level	input voltad	ae = 2.5V, Ma	aximum high		= 5V positi <sup>,</sup>
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	als		Maximum lo edge trigge By electrical V	ow level inpu r: tw=10us n /oltage: 0~0.6	ut voltage = ninimum. Tr, 6V/2~30V or d	Maximum vol 0.8V,Minimu Tf=1us Maxii Iry contact.	tage 25V, Max Im high level	input voltad	ae = 2.5V, Ma	aximum high		= 5V positi
B. TRIGGER IN / TRIGGER OUT sign D. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	als		Maximum lo edge trigge By electrical \ 4~5V=OK, 0V	ow level inpu r: tw=10us n /oltage: 0~0.6	ut voltage = ninimum. Tr, 6V/2~30V or d pedance)=Fai	Maximum vol 0.8V,Minimu Tf=1us Maxii Iry contact.	tage 25V, Max ım high level num, Min de	input voltag lay between	ge = 2.5V, Ma 2 pulses 1m	aximum high		= 5V positi
TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal     UNCTIONS AND FEATURES     I. Parallel operation	als		Maximum Id edge trigge By electrical V 4~5V=OK, OV Possible. Up t	v level inpu r: tw=10us n /oltage: 0~0.6 (500ohm imp	ut voltage = ninimum. Tr, 5V/2~30V or d pedance)=Fai units in Maste	Maximum vol 0.8V,Minimu Tf=1us Maxii Iry contact.	tage 25V, Max ım high level mum, Min de 	input voltag lay between	ge = 2.5V, Ma 2 pulses 1m	aximum high		= 5V positi
TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>FUNCTIONS AND FEATURES</b> Parallel operation     Series operation	als		Maximum Id edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two	v level inpu r: tw=10us n /oltage: 0~0.6 (500ohm imp co 4 identical uni	ut voltage = ninimum. Tr, 6V/2~30V or d pedance)=Fai units in Maste ts. Refer to ins	Maximum vol 0.8V,Minimu Tf=1us Maxii Iry contact. I er/Slave mode	tage 25V, Max Im high level mum, Min de Refer to instr ual.	input voltag lay between uction manua	ge = 2.5V, Ma 2 pulses 1m I.	aximum high		= 5V positi
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal <b>FUNCTIONS AND FEATURES</b> . Parallel operation 8. Daisy chain	als		Maximum Ic edge trigge By electrical V 4~5V=OK, OV Possible. Up t Possible. Two Power suppli	v level inpu r: tw=10us n /oltage: 0~0.6 / (500ohm imp o 4 identical i i identical uni es can be con	ut voltage = ninimum. Tr, 6V/2~30V or d pedance)=Fai units in Maste ts. Refer to ins nected in Dai	Maximum vol 0.8V,Minimu, Tf=1us Maxiu Iry contact. I er/Slave mode struction man isy chain to sy	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the	input voltag lay between uction manua ir turn-on and	ge = 2.5V, Ma 2 pulses 1m l. turn-off.	aximum high	level input	= 5V positi
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> I. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control	als	  	Maximum Ic edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou	v level inpu r: tw=10us n /oltage: 0~0.4 (5000hm imp o 4 identical i identical uni es can be con tput power to	ut voltage = ninimum. Tr, 5V/2~30V or d pedance)=Fai units in Maste ts. Refer to in: nected in Dai	Maximum vol 0.8V,Minimu Tf=1us Maxin Iry contact. I er/Slave mode struction man isy chain to sy med value. Pro	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the ogramming vi	input voltag lay between uction manua ir turn-on and a the commur	ge = 2.5V, Ma 2 pulses 1m l. turn-off. ication ports	aximum high 15.	level input	= 5V positi
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_UN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> I. Parallel operation     Series operation     Aconstant power control     Constant power control     Coutput resistance control	als	     	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri	w level inpur: tw=10us n /oltage: 0~0.4 (500ohm imp co 4 identical uni es can be con tput power tc es resistance.	ut voltage = ninimum. Tr, 5V/2~30V or d pedance)=Fai units in Maste ts. Refer to in: nected in Dai o a proggram Resistance ra	Maximum vol 0.8V, Minimu Tf=1us Maxin Iry contact. I er/Slave mode struction man isy chain to sy med value. Pro ange: 1~1000	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the ogramming vi nΩ. Programr	input voltag lay between uction manua ir turn-on and a the commur ning via the co	ye = 2.5V, Ma 2 pulses 1m I. turn-off. aication ports	aximum high is.	level input	
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_UN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> I. Parallel operation     Series operation     Aconstant power control     Constant power control     Coutput resistance control	ais	    	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	w level inpur: tw=10us n /oltage: 0~0.0 (500ohm imp to 4 identical uni- es can be con tput power tc es resistance. le Output rise on ports or th	ut voltage = ninimum. Tr, 5V/2~30V or d bedance)=Fai units in Maste ts. Refer to in: nected in Dai o a proggram Resistance ra a and Output he front panel	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man isy chain to sy med value. Prr ange: 1~1000i fall slew rate. I.	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the ggramming vi. nΩ. Programm Programming	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. aication ports pommunicatio ~999.99 V/m	or the front p n ports or the	level input	ig via the
TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_UN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> Parallel operation     Series operation     Constant power control     Constant power control     Output resistance control     Selw rate control	als	     	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	w level inpur: tw=10us n /oltage: 0~0.0 (500ohm imp to 4 identical uni- es can be con tput power tc es resistance. le Output rise on ports or th	ut voltage = ninimum. Tr, 5V/2~30V or d bedance)=Fai units in Maste ts. Refer to in: nected in Dai o a proggram Resistance ra a and Output he front panel	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man isy chain to sy med value. Prr ange: 1~1000i fall slew rate. I.	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the ggramming vi. nΩ. Programm Programming	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. aication ports pommunicatio ~999.99 V/m	aximum high is. or the front p. n ports or the	level input	ig via the
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> 1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control     5. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBA	CK (USB, LAN,	     	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati	w level inpur: tw=10us n /oltage: 0~0.0 (500ohm imp to 4 identical uni- es can be con tput power tc es resistance. le Output rise on ports or th	ut voltage = ninimum. Tr, 5V/2~30V or d bedance)=Fai units in Maste ts. Refer to in: nected in Dai o a proggram Resistance ra a and Output he front panel	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man isy chain to sy med value. Prr ange: 1~1000i fall slew rate. I.	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the ggramming vi. nΩ. Programm Programming	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. aication ports pommunicatio ~999.99 V/m	or the front p n ports or the	level input	ig via the
a. TRIGGER IN / TRIGGER OUT sign b. DAISY_IN/SO control signal c. DAISY_OUT/PS_OK #2 signal c. DAISY_OUT/PS_OK #2 signal c. DAISY_OUT/PS_OK #2 signal c. Constant power control c. Output resistance control c. Output resistance control c. Slew rate control c. Arbitrary waveforms c. COGRAMMING AND READBA c. C232/485, Optional IEEE(*19)	CK (USB, LAN, (*20) Interfaces)	      	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up	volume linpur: r: tw=10us n /oltage: 0~0.4 (500ohm imp o 4 identical uni es can be con tput power tc es resistance. le Output rise on ports or th to 100 steps of 20	ut voltage = ininimum. Tr, 5V/2~30V or do exedance)=Fai units in Maste ts. Refer to in: nected in Daia a proggram Resistance re a and Output he front panel can be stored 30	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man isy chain to sy med value. Pro med value. Pro ange: 1~1000 fall slew rate. I. lin 4 memory	tage 25V, Max m high level num, Min de Refer to instr ual. nchronize the ggramming vi mΩ. Programm Programming cells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front pane
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     O.DAISY_OUT/PS_OK #2 signal     UVCTIONS AND FEATURES     Parallel operation     Series operation     Oaisy chain     Constant power control     Output resistance control     Selw rate control     Arbitrary waveforms     PROGRAMMING AND READBA     RS232/485, Optional IEEE(*19)     .Vout programming accuracy (*18	CK (USB, LAN, (*20) Interfaces)	      V	Maximum le edge trigge By electrical 1 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate	v level inpur: r: tw=10us n /oltage: 0~0.0 (500ohm imp o 4 identical ( identical uni es can be con tput power tc es resistance. le Output rise se resistance. le Output rise on ports or th to 100 steps 20 d output volt.	It voltage = ininimum. Tr, 5V/2~30V or ci- becdance)=Fai units in Maste ts. Refer to in: nected in Daia- be a programin. Resistance re- re- re and Output be front panel can be stored 30 age	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man isy chain to sy med value. Pro med value. Pro ange: 1~1000 fall slew rate. I. lin 4 memory	tage 25V, Max m high level mum, Min de num, Min de Refer to instr ual. chronize the ogramming vi ngramming vi ogramming vi ecells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front pane
TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_UN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> Parallel operation     Daisy chain     Constant power control     Solew rate control     Solew rate control     Solew rate control     Carbitrary waveforms <b>ROGRAMMING AND READBA RS232/485, Optional IEEE(*19)</b> Nout programming accuracy (*1)	CK (USB, LAN, (*20) Interfaces)	       V	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate 0.1% of actua	v level inpur: r: tw=10us n /oltage: 0~0.0 (5000hm imp to 4 identical uni es can be con tput power te es resistance. le Output rise on ports or th to 100 steps 20 d output volt. l output volt.	It voltage = ininimum. Tr, 5V/2~30V or ci- beedance)=Fai units in Maste ts. Refer to in: nected in Dai a proggram Resistance ra- and Output e front panel can be stored <b>30</b> age ent+0.2% of ra	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man sy chain to sy med value. Pro- med value. Pro- get 1~10001 fall slew rate. I in 4 memory 40	tage 25V, Max m high level mum, Min de num, Min de Refer to instr ual. chronize the ogramming vi ngramming vi ogramming vi ecells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front panel
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal     UNCTIONS AND FEATURES     Jearallel operation     Series operation     A. Daisy chain     Constant power control     Output resistance control     Selw rate control     Arbitrary waveforms     REGGRAMMING AND READBA     S232/485, Optional IEEE(*19)     I.Vout programming accuracy (*11     S. Jout programming resolution	CK (USB, LAN, (*20) Interfaces)	      V	Maximum le edge trigge By electrical Y 4~5V=OK, 0V Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate 0.01% of actua 0.002% of rat	w level inpur: r: tw=10us n /oltage: 0~0.4 (500ohm imp to 4 identical of identical uni es can be con tput power te se resistance. le Output rise on ports or th to 100 steps 20 d output volt. lo output current	It voltage = inimum. Tr, SV/2~30V or do dedance)=Fai units in Maste ts. Refer to in: nected in Dai a proggram. Resistance ra: and Output te front panel can be stored 30 age ent+0.2% of ra ltage	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man sy chain to sy med value. Pro- med value. Pro- get 1~10001 fall slew rate. I in 4 memory 40	tage 25V, Max m high level mum, Min de num, Min de Refer to instr ual. Refer to instr ual. Refer to instr ual. Chronize the ogramming vi Programming Programming Cells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front pane
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal     UNCTIONS AND FEATURES     Arallel operation     Series operation     A. Constant power control     S. Output resistance control     S. Output resistance control     S. Slew rate control     Arbitrary waveforms     PROGRAMMING AND READBA RS232/485, Optional IEEE(*19)     I.Vout programming accuracy (*11     2.lout programming accuracy (*11     3.Vout programming resolution	CK (USB, LAN, (*20) Interfaces)	      V	Maximum le edge trigge By electrical N 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate 0.1% of actua 0.002% of rat	volume linpur: r: tw=10us n /oltage: 0~0.4 (500ohm imp o 4 identical (500 to 1 identical units) es can be con tput power tc es resistance. le Output rise on ports or th to 100 steps or 20 d output volt. l output curres ed output cu	It voltage = inimum. Tr, 5V/2~30V or do bedance)=Fai units in Maste ts. Refer to im nected in Daia a proggram Resistance rr a and Output the front panel can be stored 30 age ent+0.2% of ra tage rrent	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man sy chain to sy med value. Pro- med value. Pro- get 1~10001 fall slew rate. I in 4 memory 40	tage 25V, Max m high level mum, Min de num, Min de Refer to instr ual. Refer to instr ual. Refer to instr ual. Chronize the ogramming vi Programming Programming Cells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front panel
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal <b>UNCTIONS AND FEATURES</b> Arallel operation     Series operation     Daisy chain     Constant power control     S. Output resistance control     S. Slew rate control     S. Slew rate control     Arbitrary waveforms     PROGRAMMING AND READBA     R232/485, Optional IEEE(*19)     I/Out programming accuracy (*11     S. Mout programming resolution     S. Jout programming resolution	CK (USB, LAN, (*20) Interfaces)	        V V    	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate 0.002% of rate 0.002% of rate 0.005% of rate	w level inpur: r: tw=10us n /oltage: 0~0.0. (500ohm imp o 4 identical ( identical uni es can be con tput power tc es resistance. le Output risc on ports or tf to 100 steps ( 20 d output volt l output curre ed output cur ed output volt output volt d output volt d output volt d output volt	It voltage = ininimum. Tr, 5V/2~30V or c because)=Fai units in Maste ts. Refer to in: nected in Daia be proggram. Resistance re and Output te front panel can be stored 30 age ent+0.2% of ra tage	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man sy chain to sy med value. Pro- med value. Pro- get 1~10001 fall slew rate. I in 4 memory 40	tage 25V, Max m high level mum, Min de num, Min de Refer to instr ual. Refer to instr ual. Refer to instr ual. Chronize the ogramming vi Programming Programming Cells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front panel
A. TRIGGER IN / TRIGGER OUT sign     DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     TUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control     5. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBA     RS232/485, Optional IEEE(*19)     1.Vout programming accuracy (*1)     3.Vout programming resolution     4.Lout programming resolution     4.Lout programming resolution     5.Vout readback accuracy     6.Jout readback accuracy     (*15)	CK (USB, LAN, (*20) Interfaces) 5)	        	Maximum le edge trigge By electrical 1/ 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate 0.002% of rate 0.05% of rate 0.05% of rate	w level inpur: r: tw=10us n /oltage: 0~0.0 (500ohm imp o 4 identical ( identical uni es can be con tput power tc es resistance. le Output rise on ports or th to 100 steps 20 d output volt. loutput curre ed output volt output curre ed output volt output curre ed output volt output curre	It voltage = ininimum. Tr, 5V/2~30V or ci- beclance)=Fai units in Maste ts. Refer to in: nected in Dai- be a programin. Resistance ra- re and Output te front panel can be stored 30 age ent+0.2% of ra- tage rrent tage nt	Maximum vol 0.8V,Minimu. Tf=1us Maxin Iry contact. I er/Slave mode er/Slave mode sy chain to sy med value. Pro ange: 1~1000 fall slew rate. I. in 4 memory 40 ated output co	tage 25V, Max m high level mum, Min de Refer to instr ual. achronize the ogramming via Programming cells. Activatio <b>60</b>	input voltac lay between uction manua r turn-on and a the commun son by comman 80	je = 2.5V, M. 2 pulses 1m l. turn-off. iication ports mmunicatio ~999.99 //mt d via the con 100	aximum high is. or the front p n ports or the Sec. or A/mSec nmunication p 150	level input a anel. front panel. Programmir orts or by the <b>300</b>	ig via the front panel 600
Programmed signals     RidGGR IN / TRIGGER OUT sign     DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBA     RS232/485, Optional IEEE(*19)     1.Vout programming accuracy (*11     3. Vout programming resolution     4. Jout programming resolution     5. Vout readback accuracy     6. Alout programming resolution     5. Vout readback resolution (of rat     8. Jout readback resolution (of rat	CK (USB, LAN, (*20) Interfaces) 5) 5) ed output voltage)	        V V    	Maximum le edge trigge By electrical \ 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up <b>10</b> 0.05% of rate 0.002% of rate 0.002% of rate 0.005% of rate	w level inpur: r: tw=10us n /oltage: 0~0.0. (500ohm imp o 4 identical ( identical uni es can be con tput power tc es resistance. le Output risc on ports or ti to 100 steps ( 20 d output volt l output curre ed output cur ed output volt output volt d output volt output volt d output volt	It voltage = ininimum. Tr, 5V/2~30V or c because)=Fai units in Maste ts. Refer to in: nected in Daia be proggram. Resistance re and Output te front panel can be stored 30 age ent+0.2% of ra tage	Maximum vol 0.8V, Minimu Tf=1us Maxii Iry contact. I er/Slave mode struction man sy chain to sy med value. Pro- med value. Pro- get 1~10001 fall slew rate. I in 4 memory 40	tage 25V, Max m high level mum, Min de num, Min de Refer to instr ual. Refer to instr ual. Refer to instr ual. Chronize the ogramming vi Programming Programming Cells. Activatio	input voltag lay between uction manua ir turn-on and a the commur ning via the co range: 0.0001	ye = 2.5V, Mi 2 pulses 1m I. turn-off. sication ports communicatio ~999.99 V/ms id via the com	or the front p n ports or the Sec. or A/mSec	level input anel. front panel. . Programmir orts or by the	ng via the front panel.

## GENESYS<sup>™</sup> 5kW SERIES SPECIFICATIONS

OUTPUT RATING																
1 D + 1 + + + + + + + + + + + + + + + +		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1)		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2) 3.Rated output power		A W	500 (*3) 5000	250 5000	170 5100	125 5000	100 5000	85 5100	65 5200	50 5000	34 5100	25 5000	17 5100	13 5200	10 5000	8.5 5100
					1											
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freg. 3 phase, 3 w	rire + Ground (*4)					265Vac, 47 460Vac, 47				(ac)						
1.input voitage/ireq. 5 priase, 5 w	nre + Ground (~4)									40/460/48	30Vac)					
	3-Phase, 200V models:		17.5A @ 2			20100/ 1/	00112 (00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100/110/	10, 100, 10	50140)					
2. Maximum Input current at 100% load	3-Phase, 400V models:		9.2A @ 38													
	3-Phase, 480V models:		9.2A @ 38													
3.Power Factor (Typ)						tput powe		01	01	01	01	01	0.2	02		02
4.Efficiency (Typ) (*5) (*22) 5.Inrush current (*6)		% A	89 (*21) Less than	91	91	91	90	91	91	91	91	91	92	92	92	92
			Less triai	JUA												
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					out voltag											
2.Max. Load regulation (*8)					out voltag	T										
3.Ripple and noise (p-p, 20MHz) (	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient			50PPM/°C													
6.Temperature stability										p. Constar		d & temp.				
7. Warm-up drift					r				1	wing pow						
8.Remote sense compensation/w	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS								or a load cl g 100V. 2n				ut current.	Output se	et-point:
12.Start up delay		Sec	Less than				or mouel		ameruulli	9 100 1.21		3015 0000	C 100V.			
. ,																
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					put currer											
2.Max. Load regulation (*13)					put currer											
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	_≤8
5.Temperature coefficient		PPM/°C	10V~100				· ·			inutes war						
										nutes warn						
6.Temperature stability										p. Constar						
7. Warm-up drift								·		0 minutes			1.			
			150V~60	UV: Less th	nan +/-0.1	5% of rate	d output o	urrent ov	er 30 min	utes follov	ving powe	er on.				
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPU	JT)												
1.Vout voltage programming			0~100%,	0~5V or 0	~10V, use	r selectab	e. Accura	cy and line	earity: +/-	0.15% of ra	ated Vout.					
2.lout voltage programming (*15	5)		0~100%,	0~5V or 0	~10V, use	r selectab	e. Accura	cy and line	earity: +/-	0.4% of rat	ted lout.					
3.Vout resistor programming			0~100%,	0~5/10Ko	hm full sc	ale, user s	electable.	Accuracy	and linea	rity: +/-0.5	5% of rate	d Vout.				
4.lout resistor programming (*15	i)									rity: +/-0.5						
5.Output voltage monitor			0~5V or 0	~10V, use	er selectab	le. Accura		N/ of rates	Vout							
6.Output current monitor (*15)							cy: +/-0.5	% 01 TaleC	i vout.							
			0~5V or 0	~10V, use	er selectab	ole. Accura										
			0~5V or 0	)~10V, use	er selectab	ole. Accura										
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPU	Γ)					icy: +/-0.5	% of rated	l lout.		- Mayimu	m Valta ga	- 20V/ May	rimum Cin		10m A
1. Power supply OK #1 signal	ATED FROM THE OUTPU	Г) 	Power su	pply outp	ut monito	or. Open co	ollector. O	% of rated	l lout. On. Outp	ut Off: Off					k Current:	10mA.
1. Power supply OK #1 signal 2. CV/CC signal		Г) 	Power su CV/CC Mo	pply outp onitor. Op	ut monito en collect	or. Open co or. CC mo	ollector. O de: On. CV	% of rated utput On: / mode: O	l lout. On. Outp ff. Maximi	um Voltag	e: 30V, Ma	ximum Sir	nk Curren	t: 10mA.		
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro		r)  	Power su CV/CC Mo Enable/D	pply outp onitor. Op isable ana	ut monito en collect alog progi	or. Open co or. CC mo ramming o	ollector. O de: On. CV	% of rated utput On: / mode: O electrical	l lout. On. Outp ff. Maximu signal or	um Voltag dry contac	e: 30V, Ma ct. Remote	ximum Sir e: 0~0.6V c	nk Current or short. L	t: 10mA. ocal: 2~30	V or open	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal		T)   	Power su CV/CC Mo Enable/D analog pr	pply outp onitor. Op isable ana ogrammir	out monito en collect alog prog ng control	or. Open co or. CC mo ramming o monitor si	ollector. O de: On. CV control by ignal. Ope	% of rated utput On: / mode: O electrical n collecto	l lout. On. Outp ff. Maximi signal or r. Remote:	um Voltag dry contac On. Local:	e: 30V, Ma ct. Remote Off. Maxir	ximum Sir e: 0~0.6V c num Volta	nk Curren or short. Lo Ige: 30V, M	t: 10mA. ocal: 2~30 laximum S	V or open	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		T)    	Power su CV/CC Mo Enable/D analog pr Enable/D	pply outp onitor. Op isable ana ogrammir isable PS	eut monito en collect alog prog ng control output by	or. Open co or. CC mo ramming o monitor si r electrical	ollector. O de: On. CV control by ignal. Ope signal or	% of rated utput On: / mode: O electrical n collecto dry conta	l lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V	um Voltag dry contac On. Local: ' or short, 2	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c	ximum Sir e: 0~0.6V c mum Volta open. User	nk Current or short. Lu ige: 30V, M r selectabl	t: 10mA. ocal: 2~30 laximum S le logic.	V or open	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		Г)    	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D	pply outp onitor. Op isable ana ogrammir isable PS isable PS	out monito en collect alog prog ng control output by output by	or. Open co cor. CC mo ramming o monitor si relectrical relectrical	ollector. O de: On. CV control by ignal. Ope signal or signal or	% of rated utput On: / mode: O electrical n collecto dry conta dry conta	I lout. On. Outp ff. Maximi signal or r. Remote: ct. 0~0.6V ct. Remot	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V o	e: 30V, Ma ct. Remote Off. Maxir 2~30V or o pr short. L	ximum Sin e: 0~0.6V c mum Volta open. User ocal: 2~30	nk Current or short. Lu ige: 30V, M r selectabl IV or open	t: 10mA. ocal: 2~30 laximum S le logic. ı.	V or open ink Curren	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	1	r)     	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper	pply outp onitor. Op isable ana ogrammin isable PS isable PS n drain pro	eut monito en collect alog progi ng control output by output by ogramma	or. Open co for. CC mo ramming o monitor si relectrical relectrical ble signals	ollector. O de: On. CV control by ignal. Ope signal or signal or s. Maximu	% of rated utput On: / mode: O electrical n collecto dry conta dry conta m voltage	On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot 25V, Max	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V c imum sink	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1	ximum Sin 2: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh	nk Current or short. Lu ge: 30V, M r selectabl IV or open unted by	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	1	Г)    	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu	pply outp onitor. Op isable ana ogrammin isable PS n drain pro m low lev	eut monito en collect alog proging control output by output by ogrammal vel input	or. Open co for. CC mo ramming of monitor si electrical of electrical ble signals voltage =	ollector. O de: On. CV control by ignal. Ope signal or signal or s. Maximu = 0.8V, Mi	% of rated utput On: / mode: O electrical n collecto dry conta dry conta m voltage nimum h	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V c imum sink input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sin e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Current or short. Lu ige: 30V, M r selectabl V or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	1	r)     	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu positive	pply outp onitor. Op isable ana ogrammin isable PS isable PS n drain pro m low lev edge trig	out monito en collect alog progi ng control output by output by ogrammal vel input gger: tw=	or. Open co for. CC mo ramming of monitor si electrical of electrical ble signals voltage =	bilector. O de: On. CV control by ignal. Ope signal or signal or . Maximu = 0.8V,Mi himum. T	% of rated utput On: ' mode: O electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us M	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V c imum sink	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sin e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Current or short. Lu ige: 30V, M r selectabl V or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	1	[]     	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri	pply outp onitor. Op isable ana ogrammin isable PS isable PS n drain pro m low ley edge trig cal Voltag	ut monito en collect alog progi ng control output by output by ogrammal vel input gger: tw= ge: 0~0.6V	or. Open co cor. CC mo ramming o monitor si relectrical relectrical ble signals voltage = =10us mir /2~30V or	cy: +/-0.5 cy: +/-0.5 control by control by ignal. Ope signal or signal or signal or signal or a. Maximu = 0.8V,Mi nimum. T dry conta	% of rated utput On: ' mode: O electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us M	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V c imum sink input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sin e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Current or short. Lu ige: 30V, M r selectabl V or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	1	[)      	Power su CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri	pply outp onitor. Op isable ana ogrammin isable PS isable PS n drain pro m low ley edge trig cal Voltag	ut monito en collect alog progi ng control output by output by ogrammal vel input gger: tw= ge: 0~0.6V	or. Open co ramming o monitor si electrical electrical ble signals voltage = 10us mir	cy: +/-0.5 cy: +/-0.5 control by control by ignal. Ope signal or signal or signal or signal or a. Maximu = 0.8V,Mi himum. T dry conta	% of rated utput On: ' mode: O electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us M	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V c imum sink input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2	ximum Sin e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	nk Current or short. Lu ige: 30V, M r selectabl V or open unted by imum hic	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open ink Curren	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES	1	r)        -	Power su CV/CC Mo Enable/D Enable/D Enable/D Two oper Maximu positive By electri 4~5V=OF	pply outp nitor. Op isable an ogrammir isable PS isable PS isable PS isable PS drain pro m low lev edge trig cal Voltag c, OV (5000	eut monito en collect alog prog ng control output by output by ogrammal vel input gger: tw= gger: tw= ge: 0~0.6V ohm impe	or. Open co or. CC mo ramming of monitor si electrical electrical ble signals voltage = =10us mir /2~30V or dance)=Fi	ollector. O de: On. CV control by ignal. Ope signal or signal or signal or . Maximu = 0.8V,Mi nimum. T dry conta ail	% of ratec utput On: / mode: O electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us h ct.	l lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot 25V, Max igh level Maximun	um Voltag dry contac On. Local: ' or short, : e: 0~0.6V c imum sink l input vo n, Min del	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2 lay betwo	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Curreni or short. Lu ge: 30V, M r selectabl W or open unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level ir	V or open ink Curren ) aput = 5V	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog control     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation	1	()        -	Power su CV/CC Mc Enable/D analog pr Enable/D Two oper Maximu positive By electri 4~5V=OP	pply outp nitor. Op isable an ogrammir isable PS isable PS isable PS isable PS of drain pro m low lev edge trig cal Voltag c, OV (5000	eut monito en collect alog proging control output by output by ogrammal vel input gger: tw= gger: tw= gger: tw= low-0.6V ohm impe	or. Open co or. CC mo ramming of monitor si electrical electrical ble signals voltage = =10us mir //2~30V or dance)=Fi	bilector. O de: On. CV control by ignal. Ope signal or signal or . Maximu = 0.8V,Mi himum. T dry conta ail	% of ratec utput On: / mode: O electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us h ct.	l lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot 25V, Max igh level Maximun	um Voltag dry contac On. Local: ' or short, 2 e: 0~0.6V c imum sink input vo	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2 lay betwo	ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Curreni or short. Lu ge: 30V, M r selectabl W or open unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level ir	V or open ink Curren ) aput = 5V	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog control     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation	1		Power su CV/CC Mc Enable/D analog pr Enable/D Two oper Maximu positive By electri 4~5V=OP Possible.	pply outp onitor. Op isable ana ogrammin isable PS isable PS isable PS isable PS of drain pro m low leve edge trig cal Voltag cal Voltag c, ov (5000 Up to twe Two ident	eut monito en collect alog prog ng control output by output by out	or. Open co or. CC mo ramming o monitor si electrical electrical ble signals voltage = -10us mir /2~30V or dance)=Fa entical uni . Refer to i	cy: +/-0.5 control by ignal. Ope signal or signal o	% of rated utput On: / mode: O electrical n collecto dry conta m voltage nimum h r,Tf=1us h ct. er/Slave m	l lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot 25V, Max igh level Maximun node. Refe	um Voltag dry contac On. Local: ' or short, : e: 0~0.6V c imum sink i input vo n, Min del r to instru	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L c current 1 Itage = 2 lay betwo	ximum Sii 2: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul ual. For m	nk Curreni or short. Lu ge: 30V, M r selectabl W or open unted by imum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level ir	V or open ink Curren ) aput = 5V	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain	1		Power su CV/CC Mu Enable/D analog pr Enable/D Two oper Maximu positive By electri 4~5V=OH Possible. Possible. Power su	pply outp isable ana ogrammin isable PS isable	eut monito en collect alog prog ng control output by output by out	or. Open co cor. CC mo ramming of relectrical relectrical ble signals voltage = 10us mir /2~30V or dance)=Fi entical uni. . Refer to i ected in D	cy: +/-0.5 cy: +/-0.5 cy: cy: cy: cy: cy: cy: cy: cy: cy: cy:	% of ratec utput On: ' mode: O electrical n collecto dry conta dry conta dry conta dry conta m voltage nimum h r,Tf=1us h ct. er/Slave n manual. to synchr	l lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot 25V, Max igh level Maximum node. Refe onize the	um Voltag dry contac On. Local: ' or short, : e: 0~0.6V c imum sink i input vo n, Min del er to instru	e: 30V, Ma ct. Remote Off. Maxir 2~30V or co or short. L ccurrent 1 Itage = 2 lay betwo ction man and turn-o	ximum Sii 2: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul	nk Curren or short. Lu ge: 30V, M s selectabl V or open unted by mum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. a. 27V zener gh level ir r please co	V or open ink Curren ) aput = 5V	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control	1	r)        -	Power su CV/CC Mu Enable/D analog pr Enable/D Enable/D Two oper Maximu positive By electri 4~5V=Of Possible. Possible. Power su Limits the	pply outp onitor. Op isable an ogrammir isable PS isable PS of drain pro m low leve edge trig cal Voltag C, OV (5000 Up to twe Two ident pplies car e output p	ut monito en collect alog proging control output by output by ogrammal vel input gger: tw= ger: 0-0.6V ohm impe	or. Open co or. CC mo ramming of relectrical relectrical relectrical solution relectrical	cy: +/-0.5 bllector. O de: On. CV control by gignal. Ope signal or signal or	% of ratec utput On: / mode: O electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us h ct. er/Slave n n manual. to synchr ie. Progra	l lout. On. Outp ff. Maximi signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level Maximum node. Refe onize thei mming via	um Voltag dry contac On. Local: ' or short, : e: 0~0.6V c imum sink i input vo n, Min del er to instru er to instru ir turn-on a the comi	e: 30V, Ma ct. Remote Off. Maxir 2~30V or co or short. L ccurrent 1 Itage = 2 lay betwo ction man and turn municatio	ximum Sii 2: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul uual. For m off. n ports or	nk Curren or short. Lu ge: 30V, M r selectabl V or open unted by mum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. a. 27V zener gh level ir r please co panel.	V or open ink Curren ) aput = 5V	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain	1		Power su CV/CC Mu Enable/D Enable/D Enable/D Two oper Maximu positive By electri 4~5V=Of Possible. Possible. Power su Limits the Emulates	pply outp pnitor. Op isable an ogrammin isable PS isable PS of drain pro- m low leve edge trig cal Voltag Cal	but monito en collect alog prog ng control output by output by orgrammal yel input gger: tw= ge: 0~0.6V bhm impe elve (12) id tical units h be conne ower to a sistance. R	pr. Open co or. CC mo ramming of monitor si electrical electrical ble signals voltage = =10us mir /2~30V or dance)=Fi entical uni. Refer to i accted in D proggran esistance	cy: +/-0.5 cy: +/-0.5 control by ignal. Ope signal or signal	% of ratec utput On: / mode: O electrical n collecto dry conta- dry conta- dry conta- dry conta- nimum h r,Tf=1us h r,Tf=1us h ct. er/Slave n manual. to synchr to synchr te. Progra 1000mΩ.	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remote 25V, Max igh level Maximun node. Refe onize thei mming vi. Program	um Voltag dry contac On. Local: ' or short, : e: 0~0.6V c imum sink i input vo n, Min del er to instru ir turn-on a the comm	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. L current 1 Itage = 2 lay betwo ction man and turn municatio ae commu	ximum Sii e: 0~0.6V c mum Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul uual. For m off. n ports or nication p	nk Curren or short. Lu ige: 30V, M r selectabl W or open unted by mum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. 27V zener jh level ir ph level ir r please co panel. e front pa	V or open ink Currer ) pput = 5V pnsult with	t: 10mA.
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1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT signal     10. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBAR     RS232/485, Optional IEEE(*19     1.Vout programming accuracy (*1	ACK (USB, LAN, )(*20) Interfaces) (6)		Power su CV/CC Mo Enable/D Enable/D Two oper Maximu positive By electri 4~5V=Of Possible. Possible. Power su Limits the Emulates Programun Profiles o <b>10</b> 0.05% of	pply outp onitor. Op isable an ogrammi isable PS isable PS isable PS isable PS isable PS cal Voltag cal Voltag cal Voltag c, OV (5000 Up to twe Two ident pplies car e output p series res mable Ou ication pc f up to 10 20 rated outp	out monito en collect alog proging control output by output by ogrammal vel input gger: tw= gger: 0~0.6V ohm impe elve (12) id tical units h be conne ower to a isstance. R tput rise a orts or the 0 steps ca 30 put voltag	pr. Open cc cor. CC mo ramming of monitor si e electrical electrical ble signals voltage = =10us mir /2~30V or dance)=Fi entical uni . Refer to i ected in D. proggran esistance nd Outpu front pan. n be store 40	cy: +/-0.5 oblector. O de: On. CV control by ignal. Ope signal or signal or signa	% of ratec utput On: / mode: O electrical n collecto dry conta- dry conta- dry conta- m voltage nimum h r,Tf=1us N ct. er/Slave n n manual. to synchr manual. to synchr e. Progra 1000mΩ. rate. Prog mory cells	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot: 25V, Max igh level Maximun node. Refe onize thei mming vi Programr ramming . Activatio	um Voltag dry contac On. Local: 'or short, ? e: 0~0.6V c imum sink imum sink input vo n, Min del er to instru ir turn-on. a the comm ning via th range: 0.0 on by comm	e: 30V, Ma ct. Remote Off. Maxir 2-30V or c or short. L ccurrent 1 Itage = 2 lay betwo ction man and turn- munication te commu 001~999. mand via	ximum Sii e: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul ual. For m off. n ports or nication p 99 V/mSec the comm	nk Curren or short. Lu ge: 30V, M s selectabl VV or open unted by mum hig ses 1ms. ore powe the front orts or th c. or A/mSo unication	t: 10mA. ocal: 2~30 laximum S le logic. h. 27V zener jh level ir ph level ir r please co panel. e front pa ec. Progra	V or open ink Curren ) pput = 5V ponsult with nel. mming via yy the fror	t: 10mA. h Factory. a the t panel.
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1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBA     RS232/485, Optional IEEE(*19     1.Vout programming accuracy (*1     3.Vout programming resolution     5.Vout readback accuracy	ACK (USB, LAN, ("20) Interfaces) (6) (5) ted output voltage)	()        -	Power su CV/CC Mo Enable/D Enable/D Enable/D Two oper Maximu positive By electri 4~5V=OP Possible. Possible. Possible. Possible. Program commun Profiles o <b>10</b> 0.05% of 0.1% of au 0.002% o 0.002% o 0.002% o	pply outp onitor. Op isable ana ogrammin isable PS isable PS isable PS on drain pro- m low leve edge trig cal Voltage c, OV (5000 Up to twe Two ident pplies car e output p series res mable Out ication poor f up to 10 20 rated outp f rated out r farted out r farted out r farted out	out monito en collect alog proging control output by ogrammal vel input gger: tw= ger: 0~0.6W ohm impe elve (12) id tical units h be conne ower to a istance. R tput rise a osteps ca 30 put voltag put voltag put voltag put voltag put voltag	or. Open cc or. CC mo ramming c monitor si electrical ble signals voltage = =10us mir /2~30V or dance)=Fi entical uni Refer to i ected in D proggran esistance nd Outpu front pan- n be store t+0.2% of gg ent gg	cy: +/-0.5 oblector. O de: On. CV control by ignal. Ope signal or signal or signa	% of ratec utput On: / mode: O electrical n collecto dry conta- dry conta- dry conta- m voltage nimum h r,Tf=1us N ct. er/Slave n n manual. to synchr ie. Progra 1000mΩ. rate. Progra 1000mQ. rate. Prog	I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot: 25V, Max igh level Maximun node. Refe onize thei mming vi Programr ramming . Activatio	um Voltag dry contac On. Local: 'or short, ? e: 0~0.6V c imum sink imum sink input vo n, Min del er to instru ir turn-on. a the comm ning via th range: 0.0 on by comm	e: 30V, Ma ct. Remote Off. Maxir 2-30V or c or short. L ccurrent 1 Itage = 2 lay betwo ction man and turn- munication te commu 001~999. mand via	ximum Sii e: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul ual. For m off. n ports or nication p 99 V/mSec the comm	nk Curren or short. Lu ge: 30V, M s selectabl VV or open unted by mum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. h. 27V zener jh level ir ph level ir r please co panel. e front pa ec. Progra	V or open ink Curren put = 5V ponsult with nel. mming via	t: 10mA. h Factory. a the t panel.

#### GENESYS<sup>™</sup> 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection			Output sh User prese	ut-down table. Re	when pov set by AC	ver supply input recy	changes n cle in auto	node from start mod	n CV or Po le, by Pow	wer Limit t er Switch,	o CC moo by OUTPl	le or from JT button	CC or Pow , by rear pa	ver Limit to anel or by	o CV mode communic	ation.
2.Over-voltage protection (OV	2)		Output sh	ut-down.	Reset by	AC input re	ecycle in a	utostart m	node, by C	UTPUT bu	tton, by r	ear panel	or by com	municatio	n.	
3.Over -voltage programming	range	V	0.5~12	1~24	2~36	2~44.1	5-55.125	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.
4. Over-voltage programming	accuracy		+/-1% of ra	ated outp	ut voltage	e										
5.Output under voltage limit (l			Prevents f						n analog p	rogrammi	ng. Prese	t by front	panel or co	ommunica	tion port.	
6.Over temperature protection							by autosta	rt mode.								
7. Output under voltage limit (I	JVL)		Prevents a	djustmer	nt of Vout	below limi	it.									
8. Output under voltage protec	tion (UVP)		Prevents a mode, by I				it. P.S outp tton, by re					ition. Rese	et by AC in	put recycl	e in autost	art
FRONT PANEL																
1.Control functions			Multiple o	ptions wi	th 2 Enco	ders										
			Vout/lout/	Power Li	mit manu	al adjust										
			OVP/UVL/	UVP man	ual adjust											
							oldback, O									
							of LAN,IEEE	,RS232,RS	485,USB (	or Optiona	l commur	nication ir	terface.			
			Output ON													
			Communi													
							oltage/resi				K/10K pro	grammin	g			
							f Voltage/			5V/10V.						
2.Display			Vout: 4 dig													
							itput curre				DATION	CVCTENA C	FOUENCE			
3.Front Panel Buttons Indicatio	ns		OUTPUT O													
4. Front Panel Display Indicatio	ns		Voltage, C (communi				ernal Volta mmunicati				LFP, Auto	start, Safe	etstart, Fol	dback V/I,	Remote	
ENVIRONMENTAL CONDITION	IS											_				
1.Operating temperature			0~50°C, 10	00% load.												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% R	H (no cor	densation	n)										
4.Storage humidity		%	10~95% R	· · ·												
5.Altitude (*17)			Operating			<u> </u>	ront dorati	ing 2%/10	0m or Ta c	lerating 1°	C/100m a	hove 2000	m Non or	perating: /	0000ft (12	(000m)
			operating	. 1000011	(500011), (	output cui	rent derati	ing 2 /0/ 10			C/1001114	5076 2000		Jerating. 4	000011 (12	000111).
MECHANICAL		1	-													
1.Cooling			Forced air		·		low directi	ion: from F	· · ·			ear				
2.Weight		kg	2.7kW/3.4	kW - Less	than 6.25	kg.			5kW - Le	ss than 7.5	kg.					
3.Dimensions (WxHxD)		mm	W: 423, H	l: 43.6, D	): 553.2 (I	ncluding		and busb	ars cover		o Outline	drawing	ı).			
4.Vibration			MIL-810G,	method	514.6, Pro	cedure I, te	est conditio	on Annex	C - 2.1.3.1							
5.Shock			Less than 2	20G, half	sine, 11mS	Sec. Unit is	unpacked									
SAFETY/EMC																
1.Applicable standards:	Safety		111 61010 1	(5122.2	No 61010	1 15610	10-1, EN610	010.1								
1.1. Interface classification	Salety		Vout≤50V 60≤Vout≤	Models:	Output, J1	, J2, J3, J4,	J5, J6, J7, J	8 (sense) 8	2 J9 (comr	nunication	n options)	are Non H	lazardous	s) are Non	Hazardou	
1.2 Withstand voltage			Vout≤50V Input - Gr 60V≤Vout Output & Output &	/ Models ound: 28 d≤100V M J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens	: Input – ( 35VDC 1 1odels: In e) - J1, J2 e) - Grou Models: I e) - J1, J2 e) - Grou	Output & C min. put – Out 2, J3, J4, C nd: 1500V nput – Ou 2, J3, J4, C nd: 2500V	J8 (sense) put & J8 ( J5, J6, J7 /DC 1min, tput & J8 J5, J6, J7	, J1, J2, J sense), J <sup>.</sup> & J9 (con Input - G (sense), J & J9 (con	J3, J4, J5 1, J2, J3, nmunicat iround: 28 J1, J2, J3	, J6, J7 & J4, J5, J6 ion optior 335VDC 1 , J4, J5, J6	J9 (com 5, J7 & J9 1s): 850V min. 6, J7 and	municatic (commu DC 1min. J9 (comr	n options nication o nunication	): 4242VE ptions): 4	0C 1min, 242VDC <sup>-</sup>	1min,
	1	+														
1.3 Insulation resistance			100Mohm	at 25°C,	70%RH. O	utput to G	around 50	OVDC								
1.3 Insulation resistance 2.Conducted emmision							around 50 Annex H ta		CC Part 1	5-A, VCCI-	Α.					
			IEC/EN612	04-3 Indu	ustrial env	ironment,		able H.1 , I		,						

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

#### NOTES:

NOTES: \* 1: Minimum voltage is guaranteed to maximum 0.2% of rated output voltage. \* 2: Minimum current is guaranteed to maximum 0.2% of rated output current. \* 3: G5kW: Derate 5A/1°C above 40°C. \* 3: G5kW: Derate 5A/1°C above 40°C. \* 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase \* 5: 3-Phase 200V models: At 200Va cinput voltage. 3-Phase 400/480V: At 380Vac input voltage. With rated output power. \* 6: Not including EM filter inrush current, less than 0.2m5ec. \* 7: 3-Phase 200V models: 170-265Vac; 3-Phase 400/480V: At 380Vac input voltage. Xex Constant load. \* From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense. \* 9: For 10V-150V models: Measured with JETA RC-9131C (1:1) probe. For 200~600V models: Measured with 100:1 probe. \* 10: The maximum voltage on the power supply terminals must not exceed the rated voltage. \* 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load. \* 12: From 90% to 10% of Rated Output Voltage, constant input voltage. \* 13: For load voltage change, equal to the unit voltage rating, constant input voltage. \* 14: For 10V model, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current the SH2-1MHz. \* 13: For Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift. \* 16: Measured at the sensing point. \* 17: For 10V model Is a derating 2°C/100m. \* 18 Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m. \* 19 Max, ambient temperature for using IEEE is 40°C. \* 20: For 10V model only. Max, output current for using IEEE is 400A up to 40°C and 450A up to 30°C. \* 21: For 10V model only. Max, output current for using IEEE is 400A up to 40°C and 450A up to 30°

\* 22: Typ. at Ta=25°C, rated output power.

## GENESYS<sup>™</sup> 7.5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
Development Priority		Α	В	A	В	В	A	A	В	В	A	В	A
1.Rated output voltage(*1)	v	20	30	40	60	80	100	150	200	300	600	1000	1500
2.Rated output current (*2)	Α	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
NPUT CHARACTERISTICS	V	20	20	40	60	80	100	150	200	200	600	1000	1500
INPUT CHARACTERISTICS	V	20	30	40	60 ac, 47~63Hz		100	150	200	300	600	1000	1500
I.Input voltage/freq. 3 phase, 3 wire+ground (*4)		3-Phase, 48	30V models		ac, 47~63Hz ac, 47~63Hz		· · · ·	40/460/480	Vac).				
2.Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 480V models:		25.5A @ 20 13.5A @ 38											
3.Power Factor (Typ.)		0.94 @ 200/	/380Vac, rat	ed output	power.								
ł.Efficiency (Typ.) (*5) (*3)	%	91	**	91	**	**	91	91	**	**	92	**	92
5.Inrush current (*6)	Α	Less than 6	5A.										
	-												
CONSTANT VOLTAGE MODE	۷	20	30	40	60	80	100	150	200	300	600	1000	1500
.Max. Line regulation (*7)			ted output										
2.Max. Load regulation (*8)			ted output	· · ·									
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	**	80	**	**	90	150	**	**	450	**	1300
I.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	**	8	**	**	15	20	**	**	100	**	500
5.Temperature coefficient					age, followi								
5.Temperature stability					erval follow					temperatu	ure.		
7.Warm-up drift		Less than 0	.05% of rate	ed output v	oltage +2m	V over 30 m	inutes follo	wing powe	r on.				
3.Remote sense compensation/wire (*10)	V	2	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. response time (*11)	mS	30	**	30	**	**	50	50	**	**	100	**	200
10.Down-prog. response time Full load (*11)	mS	50	**	80	**	**	100	100	**	**	600	**	400
No load (*12)		600	**	1000	**	**	1500	2500	**	**	3000	**	3000
1.Transient response time		Output set	point: 10~1	00%, Local	sense.				-	% of rated o	output curre	nt.	
		1		lels up to ai	nd including	g 100V. 2mS	for models	above 100V					
2.Start up delay		Less than 5	Sec. II. Rated out	haut									
3.Hold-up time		5mS Typica	il. Rated ou	tput power									
CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
.Max. Line regulation (*7)		0.05% of ra	ted output	current.									
2.Max. Load regulation (*13)			ted output										
B.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	**	≤300	**	**	≤70	≤45	**	**	≤14	**	≤5
			nodels: 100		om rated ou	Itput currer			warm-up.				
.Temperature coefficient	PPM/°C	150V~1500	V models: 7	OPPM/OC f	rom rated o	utput curre	nt, followin	g 30 minute	es warm-up				
.Temperature stability		10 01% of ra	to d lout our										
					rval followi .25% of rate	-					re.		
5.Warm-up drift		20V~100V I	models: Les	s than +/-0	erval followi .25% of rate -0.15% of ra	d output cu	irrent over	30 minutes f	ollowing p	ower on.	re.		
·		20V~100V I 150V~1500	nodels: Les V models: L	s than +/-0	.25% of rate	d output cu	irrent over	30 minutes f	ollowing p	ower on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED	 P FROM T	20V~100V 150V~1500 HE OUTPU1	models: Les V models: L )	s than +/-0 ess than +/	.25% of rate -0.15% of ra	d output cu ted output	irrent over a	80 minutes f r 30 minute	ollowing po s following	ower on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED	 FROM T 	20V~100V n 150V~1500 HE OUTPUT 0~100%, 0 <sup>,</sup>	models: Les V models: L ') ~5V or 0~10	s than +/-0. ess than +/ IV, user sele	25% of rate -0.15% of ra	ed output cu ted output uracy and li	rrent over a current	80 minutes f r 30 minute 0.15% of rate	following po s following ed Vout.	ower on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15)	 FROM T 	20V~100V I 150V~1500 HE OUTPUT 0~100%, 0 <sup>2</sup> 0~100%, 0 <sup>2</sup>	models: Les V models: L ) ~5V or 0~10 ~5V or 0~10	s than +/-0 ess than +/ IV, user sele IV, user sele	25% of rate -0.15% of ra ectable. Acco	ed output cu ted output uracy and li uracy and li	rrent over current ove nearity: +/-i nearity: +/-i	30 minutes f r 30 minute 0.15% of rate	following po s following ed Vout. d Iout.	power on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED I.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming	 P FROM T  	20V~100V I 150V~1500 HE OUTPUT 0~100%, 0~ 0~100%, 0~ 0~100%, 0~	models: Les V models: L ) ~5V or 0~10 ~5V or 0~10 ~5/10KΩ ful	s than +/-0 ess than +/ IV, user sele IV, user sele II scale, use	.25% of rate -0.15% of ra ectable. Acco ectable. Acco r selectable	ed output cu ted output uracy and li uracy and li . Accuracy a	rrent over a current over nearity: +/-i nearity: +/-i nd linearity	80 minutes f r 30 minute 0.15% of rate 0.4% of rate r: +/-0.5% of	following po s following ed Vout. d Iout. f rated Vout	power on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15)	 FROM T   	20V~100V I 150V~1500 HE OUTPUI 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~100%, 0-	models: Les V models: L -5V or 0~10 ~5V or 0~10 ~5/10KΩ ful ~5/10KΩ ful	s than +/-0 ess than +/ IV, user sele IV, user sele Il scale, use Il scale, use	25% of rate -0.15% of ra ectable. Accor ectable. Accor r selectable r selectable	d output cu ted output uracy and li uracy and li . Accuracy a . Accuracy a	rrent over : current over nearity: +/-1 nearity: +/-1 ind linearity nd linearity	80 minutes f r 30 minute 0.15% of rate 0.4% of rate r: +/-0.5% of	following po s following ed Vout. d Iout. f rated Vout	power on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor	 <b>FROM T</b>    	20V~100V I 150V~1500 <b>HE OUTPUT</b> 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~	models: Les V models: L ') ~5V or 0~10 ~5V or 0~10 ~5/10KΩ ful ~5/10KΩ ful 10V, user se	s than +/-0 ess than +/ W, user sele W, user sele Il scale, use Il scale, use electable. A	25% of rate -0.15% of ra ectable. Accur ectable. Accur r selectable r selectable ccuracy: +/-	d output cu ted output uracy and li uracy and li . Accuracy a . Accuracy a 0.5% of rate	nearity: +/-i nearity: +/-i nd linearity nd linearity d Vout.	80 minutes f r 30 minute 0.15% of rate 0.4% of rate r: +/-0.5% of	following po s following ed Vout. d Iout. f rated Vout	power on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming	 FROM T   	20V~100V I 150V~1500 <b>HE OUTPUT</b> 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~	models: Les V models: L ') ~5V or 0~10 ~5V or 0~10 ~5/10KΩ ful ~5/10KΩ ful 10V, user se	s than +/-0 ess than +/ W, user sele W, user sele Il scale, use Il scale, use electable. A	25% of rate -0.15% of ra ectable. Accor ectable. Accor r selectable r selectable	d output cu ted output uracy and li uracy and li . Accuracy a . Accuracy a 0.5% of rate	nearity: +/-i nearity: +/-i nd linearity nd linearity d Vout.	80 minutes f r 30 minute 0.15% of rate 0.4% of rate r: +/-0.5% of	following po s following ed Vout. d Iout. f rated Vout	power on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output current monitor (*15)	FROM T	20V~100V I 150V~1500 <b>HE OUTPUT</b> 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~	models: Les V models: L ') ~5V or 0~10 ~5V or 0~10 ~5/10KΩ ful ~5/10KΩ ful 10V, user se	s than +/-0 ess than +/ W, user sele W, user sele Il scale, use Il scale, use electable. A	25% of rate -0.15% of ra ectable. Accur ectable. Accur r selectable r selectable ccuracy: +/-	d output cu ted output uracy and li uracy and li . Accuracy a . Accuracy a 0.5% of rate	nearity: +/-i nearity: +/-i nd linearity nd linearity d Vout.	80 minutes f r 30 minute 0.15% of rate 0.4% of rate r: +/-0.5% of	following po s following ed Vout. d Iout. f rated Vout	power on.	re.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) 5.GUALS AND CONTROLS (ISOLATED FROM THE OUTPU	FROM T	20V~100V i 150V~1500 HE OUTPUI 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~	models: Les V models: L -5V or 0~10 -5V or 0~10 -5/10KΩ ful -5/10KΩ ful 10V, user se 10V, user se	s than +/-0 ess than +/ IV, user sele IV, user sele I scale, use I scale, use I scale, use I ectable. A	25% of rate -0.15% of ra ectable. Acco catable. Acco r selectable r selectable ccuracy: +/- ccuracy: +/-	d output cu ted output uracy and li uracy and li . Accuracy a . Accuracy a 0.5% of rate	nrent over current over nearity: +/ nearity: +/ nd linearity nd linearity ed Vout. ed lout.	30 minutes f r 30 minute 0.15% of rate 0.4% of rate r: +/-0.5% of r: +/-0.5% of	ollowing po s following ed Vout. d lout. f rated Vout f rated lout.	ower on. power on.	. Maximum	Sink Curren	t: 10mA.
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor	 <b>FROM T</b>      T)	20V~100V i 150V~1500 HE OUTPUT 0~100%, 0 0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~	models: Les V models: L -5V or 0~10 -5V or 0~10 -5/10KΩ ful 10V, user se 10V, user se bly output r	s than +/-0 ess than +/ IV, user sele IV, user sele Il scale, use electable. A electable. A monitor. Op	25% of rate -0.15% of ra ectable. Accr ectable. Accr r selectable ccuracy: +/- ccuracy: +/- pen collecto	uracy and li uracy and li uracy and li . Accuracy a 0.5% of rate 0.5% of rate r. Output O	rrrent over : current over : nearity: +/-i nearity: +/-i nd linearity ed Vout. ed lout. n: On. Outp	30 minutes f r 30 minutes 0.15% of rate 0.4% of rate r: +/-0.5% of r: +/-0.5% of ut Off: Off. I	ollowing pr s following ed Vout. d Iout. f rated Vout f rated Iout.	ower on. power on.	. Maximum		t: 10mA.
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1./out voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1.Power supply OK #1 signal 2.CV/CC signal	FROM T                                T)	20V~100V i 150V~1500 HE OUTPUT 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~ 0~5V or 0~ 0~5V or 0~	models: Les V models: L -5V or 0~10 -5V or 0~10 -5/10KΩ ful -5/10KΩ ful 10V, user se 10V, user se bly output r itor. Open o	s than +/-0 ess than +/- IV, user sele VV, user sele Il scale, use Il scale, use Il scale, use Il scale, use Il scale, use Calectable. A monitor. Op collector. Co	25% of rate -0.15% of rate ectable. Acci- ectable. Acci- r selectable r selectable ccuracy: +/- ccuracy: +/- pen collecto C mode: On	d output cu ted output uracy and li uracy and li . Accuracy a 0.5% of rate 0.5% of rate r. Output O . CV mode: l	rrrent over : current over nearity: +/-i nearity: +/-i nd linearity nd linearity ed Vout. ed lout. n: On. Outp Dff. Maximu	00 minutes f r 30 minutes 0.15% of rate 0.4% of rate r: +/-0.5% of r: +/	ollowing pr s following ed Vout. d lout. f rated Vout f rated lout. Maximum V 30V. Maxim	ower on. power on.	. Maximum irrent: 10mA	۱.	
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 5.Output voltage monitor (*15) 5.Output current monitor (*15) 5.GINALS AND CONTROLS (ISOLATED FROM THE OUTPU 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control	 PROM T      T)   	20V~100V I 150V~1500 <b>HE OUTPUT</b> 0~100%, 0· 0~100%, 0· 0~100%, 0· 0~100%, 0· 0~5V or 0~ 0~5V or 0~ Power supj CV/CC Mor Enable/Dis	nodels: Les V models: L '5 V or 0~10 -5/ 0r 0~10 -5/10KΩ ful -5/10KΩ ful 10V, user se 10V, user se 10V, user se soly output r itor. Open able analog	s than +/-0 ess than +/- W, user sele W, user sele I scale, use I scale, use I scale, use I scale, use clectable. A Hectable. A monitor. Op collector. Ci y programn	.25% of rate -0.15% of ra ectable. Accord ctable. Accord r selectable r selectable ccuracy: +/- ccuracy: +/- pen collecto C mode: On ning control	d output cu ted output uracy and li uracy and li . Accuracy a 0.5% of rate 0.5% of rate r. Output O . CV mode: l by electric	rrent over : current over nearity: +/-i nearity: +/-i nd linearity ed Vout. ed lout. ed lout. n: On. Outp Off. Maximu al signal or	0 minutes f r 30 minutes 0.15% of rate r: +/-0.5% of r: +/-0.5% of ut Off: Off. f um Voltage: dry contact.	ollowing p s following ed Vout. d lout. rated Vout rated lout. Maximum V 30V. Maxim Remote: 0-	over on. power on. oltage: 30V. um Sink Cu	. Maximum	\. ~30V or ope	n.
ANALOG PROGRAMMING AND MONITORING (ISOLATED 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 5.Output current monitor (*15) 5.Output current monitor (*15)	 PROM T      T)     	20V~100V i 150V~1500 HE OUTPUT 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~ 0~5V or 0~ Power supj CV/CC Mor Enable/Dis Analog pro	nodels: Les V models: L -5V or 0~10 -5V or 0~10 -5/10KΩ ful -5/10KΩ ful 10V, user se 10V, user se 10V, user se soly output r itor. Open able analog gramming i	s than +/-0 ess than +/- W, user sele W, user sele I scale, use I scale, use I scale, use I scale, use clectable. A dectable. A monitor. Op collector. Ci g programn control mor	.25% of rate -0.15% of rate -0.15% of ra ectable. Accor- trable. Accor- r selectable ccuracy: +/- ccuracy: +/- ben collecto C mode: On ning control nitor signal.	d output cc. ted output uracy and li . Accuracy a . Accuracy a . Accuracy a . Accuracy of . Corrows r. Output O . CV mode: b y electric Open collecc	rrrent over : current over nearity: +/-i nearity: +/-i nd linearity: ed Vout. ed lout. ed lout. n: On. Outp Off. Maximu al signal or tor. Remote	0 minutes f r 30 minutes 0.15% of rate r: +/-0.5% of r: +/-0.5% of ut Off: Off. f ut Off: Off. f ut Off: contact. con. Local:	iollowing pr s following ed Vout. d lout. rated Vout rated Vout ated lout. Maximum V 30V. Maxim Remote: 0- Off. Maximu	oltage: 30V. uum Sink Cu -0.6V or sho	. Maximum ırrent: 10mA ırt. Local: 2- 30V. Maxim	\. ~30V or ope um Sink Cur	n.
ANALOG PROGRAMMING AND MONITORING (ISOLATED I.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15) 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control 4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal	FROM T	20V~100V i 150V~1500 HE OUTPUT 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~ 0~5V or 0~ Power supj CV/CC Mor Enable/Dis Analog pro Enable/Dis	models: Les V models: L -5V or 0~10 -5V or 0~10 -5/10KΩ ful -5/10KΩ ful 10V, user se 10V, user se oly output r itor. Open able analog gramming able PS out	s than +/-0. ess than +/-0. ess than +/- W, user sele W, user sele I scale, use I s	.25% of rate -0.15% of rate -0.15% of ra ectable. Accor- trable. Accor- r selectable r selectable ccuracy: +/- ccuracy: +/- pen collecto C mode: On ning control nitor signal.	d output cc ted output uracy and li uracy and li . Accuracy a . Accuracy a . Accuracy a . O.5% of rate o.5% o	rrent over : current over : nearity: +/-i nd linearity: +/-i nd linearity: ed Vout. ed lout. ed lout. en: On. Outp Dff. Maximu al signal or tor. Remote act. 0~0.6V	00 minutes f r 30 minutes f 0.15% of rate 0.4% of rate r: +/-0.5% of r: +/-0.5% of ut Off: Off. f ut Off: Off. f ut Voltage: dry contact. : On. Local: or short, 2~	ollowing p s following ed Vout. d lout. rated Vout rated lout. 7 aver	oltage: 30V. um Sink Cu -0.6V or shc m Voltage:	. Maximum Irrent: 10mA ort. Local: 2- 30V. Maxim ctable logic	\. ~30V or ope um Sink Cur	n.
ANALOG PROGRAMMING AND MONITORING (ISOLATED I.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming (*15) 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU 1.Power supply OK #1 signal 2.CV/CC signal 3.LOCAL/REMOTE Analog control 4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal 5.INTERLOCK (ILC) control	FROM T	20V~100V I 150V~1500 HE OUTPU1 0~100%, 0- 0~100%, 0- 0~100%, 0- 0~5V or 0~ 0~5V or 0~ Power supj CV/CC More Enable/Dis Enable/Dis Enable/Dis	models: Les V models: L -5V or 0~10 -5V or 0~10 -5/10KΩ ful -5/10KΩ ful -5/10KΩ ful 10V, user se 10V, user se 	s than +/-0. ess than +/-0. ess than +/- W, user sele W, user sele I scale, use I s	.25% of rate -0.15% o	d output cu ted output uracy and li uracy and li Accuracy a 0.5% of rate 0.5% of rate r. Output O . CV mode: t l by electric. Open collect or dry cont	irrent over : current over : nearity: +/-i nearity: +/-i nd linearity: d Vout. ed lout. ed lout.	30 minutes f r 30 minutes f r 30 minutes f 0.15% of rate 1.4% of rate r: +/-0.5% of r: +/-0.5% of r: +/-0.5% of r: +/-0.5% of r: +/-0.5% of 0.10% or acte r: -0.10ccl: r: 0n. Local: r: 0n short, 2- ON: 0~-0.6W	ollowing pr s following ed Vout. d lout. rated Vout rated lout. 7 ated lout. 0 avimum V 30V. Maxim 20V or ope 7 or short. O	oltage: 30V. uum Sink Cu- -0.6V or shc m Voltage: n. User sele: utput OFF:	. Maximum irrent: 10mA ort. Local: 2- 30V. Maxim ctable logic 2-30V or op	1. ~30V or ope um Sink Cur oen.	n.
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## GENESYS<sup>™</sup> 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Foldback protection		Reset by AC	t-down wher input recycl	e in autosta	rt mode, by F	Power Switcl	n, by OUTPUT	button, by r	ear panel or	by commun	ication.		
2.Over-voltage protection (OVP)			t-down. Rese										
3.Over-voltage programming range	V	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5	5~1212.75	5~1653.75
4.Over-voltage programming accura			ted output vo										
5.Output under voltage limit (UVL)			om adjusting				analog prog	ramming. Pre	eset by fron	t panel or coi	mmunicatio	n port.	
6.Over temperature protection			n the output.										
7.Output under voltage protection (I	JVP)	Prevents ac Reset by AC	ljustment of E input recyc	Vout below e in autosta	limit. P.S out art mode, by	put turns O Power Swite	ff during und h, by OUTPU	er voltage co T button, by	ondition. rear panel o	r by commu	nication.		
FRONT PANEL													
1.Control functions		Multiple op	tions with 2	Encoders									
			Power Limit r		ist								
			IVP manual a										
			Functions - C										
			ation Functio		on of LAN,IEI	EE,RS232,RS	485,USB or O	ptional comr	nunication i	nterface.			
			/OFF. Front P										
			ation Functio										
			ntrol Function						programmi	ng			
			nitor Functio					10V.					
2.Display			ts, accuracy:										
			s, accuracy: (										
3.Front Panel Buttons Indications			N, ALARM, PR									mote (comm	inication)
4. Front Panel Display Indications		RS/USB/LA	N/IEEE comm	unication, 1	Trigger, Load	/Store Cell.	ar current, ru				buck v/i, nei		anneaction),
ENVIRONMENTAL CONDITIONS													
1.Operating temperature		0~50°C, 10	0% load.										
2.Storage temperature		-30~85°C											
3.Operating humidity	%	20~90% RH	l (no conden	sation).									
4.Storage humidity	%	10~95% RH	l (no condens	ation).									
5.Altitude (*17)		Operating:	10000ft (300	0m), output	current dera	iting 2%/100	)m or Ta dera	ting 1°C/100	m above 200	0m. Non op	erating: 400	00ft (12000m	).
MECHANICAL													
1.Cooling		Forced air o	ooling by int	ernal fans. /	Airflow direc	tion: From f	ront panel to	power suppl	y rear.				
2.Weight	kg	Less than 8	.5Kg.										
3.Dimensions (WxHxD)	mm		3.6, D: 486.5 3.6, D: 598.1					utline drawii	ng.				
4.Vibration		-	nethod 514.6	-					3				
5.Shock			0G, half sine,	-	-								
SAFETY/EMC					is unpueneur								
	ifety	UL 61010 1	CSA22.2 No.	1010 1 150	61010 1 ENG	1010 1							
n.Applicable statiuarus: Sa	iety						10 (		> N				
1.1. Interface classification			Aodels: Outp					· ·	-				
			500V Models						-		-	azardous.	
		Vout≤50V <i>I</i> Input - Gro	Models: Input und: 2835VD	: – Output & C 1min.	J8 (sense), J	1, J2, J3, J4, J	5, J6, J7 & J9	(communicat	tion options	): 4242VDC 1	min,		
		Output & J	100V Models 3 (sense) - J1, und: 2835VD	J2, J3, J4, J5,	itput & J8 (se , J6, J7 & J9 (c	nse), J1, J2, J communicat	3, J4, J5, J6, J ion options):	7 & J9 (comm 850VDC 1mi	unication o n, Output &	ptions): 4242 J8 (sense) - G	VDC 1min, Fround: 1500	VDC 1min,	
1.2 Withstand voltage		Output & J	≤600V Mode 3 (sense) - J1, und: 2835VD	J2, J3, J4, J5,	0utput & J8 (s , J6, J7 & J9 (c	ense), J1, J2, communicat	J3, J4, J5, J6, ion options):	J7 and J9 (co 1275VDC 1m	mmunicatio in, Output &	on options): 4 & J8 (sense) -	242VDC 1mi Ground: 250	in, IOVDC 1min.	
		Output & J	it≤1500V Mo 3 (sense) - J1, und: 2835VD	J2, J3, J4, J5,	- Output & J8 , J6, J7 & J9 (c	(sense), J1, communicat	J2, J3, J4, J5, J ion options):	6, J7 and J9 ( 2000VDC 1m	communica hin, Output a	tion options & J8 (sense) -	: 4000VDC 1 Ground: 328	min, 30VDC 1min.	
1.3.Isolation resistance		100Mohm	at 25°C, 70%	RH. Output 1	to Ground 5	00VDC							
2.EMC standards (*18)			4-3 Industria	· · · ·			CC Part 15-A	VCCI-A.					
2.1.Conducted emission			4-3 Industria						I-A				
2.2.Radiated emission			4-3 Industria		-		,						
		120, 2110120											

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

#### NOTES:

\*\*: Coming soon

\*1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V / 0.1% of rated output voltage for 40V and 1500V \*2: Minimum current is guaranteed to maximum 0.2% of rated output current. \*3 Typ. at Ta=25°C, rated output power. \*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models

and 380-480Vac (50/60Hz) for 3-Phase 480V models. \*5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

\*6: Not including EMI filter inrush current, less than 0.2mS. \*7: 3-Phase 200V models: 170~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.

\*8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
 \*9: For 10V~150V models: Measured with JEITA RC-9131C (1:1) probe. For 200~1500V models: Measured with 100:1 probe.
 \*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.

10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 11: From 10% to 90% of Rated Output Voltage at rated resistive load.
 12: From 90% to 10% of Rated Output Voltage.
 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
 14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output

voltage and rated output current. B.W 5Hz~1MHz. \*15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

\*16: Measured at the sensing point. \*17 Max. ambient temperature for IEEE is 40°C.

\*18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

## GENESYS<sup>™</sup> GSP10kW SERIES SPECIFICATIONS

		GSP	10-1000	20 500	30 240	40-250	50 200	60 170	80 120	100-100	150 60	200 50	300.34	100.36	500.20	600.17
OUTPUT RATING 1.Rated output voltage(*1)		GSP V	10-1000	20-500 20	30-340 30	40-250	50-200 50	60-170 60	80-130 80	100-100	150-68 150	200-50 200	300-34 300	400-26 400	500-20 500	600-17 600
2.Rated output current (*2)		A	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17
3.Rated output power		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		3-Phase, 3-Phase,	400V moc	lels: 342~4	460Vac, 47	~63Hz (Co 7~63Hz (Co 7~63Hz (Co	vers 200/2 vers 380/	400/415V							
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models:		35A @ 20 18.4A @ 3 18.4A @ 3	0Vac 80Vac												
3.Power Factor (Typ)					, rated out	tput powe	er.									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)		A %	Less than < 5%	100A												
6.AC line phase imbalance								10		100						
CONSTANT VOLTAGE MODE 1.Max. Line regulation (*7)		V	10	20	30 Out voltag	40	50	60	80	100	150	200	300	400	500	600
2.Max. Load regulation (*8)					out voltag											
3.Ripple and noise (p-p, 20MHz) (	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C					ollowing									
6.Temperature stability							following :					& temp.				
7. Warm-up drift 8.Remote sense compensation/w	vire (*10)	 V	Less than 2	0.05% of	rated out	put voltag 5	e+2mV ov	er 30 mini 5	utes follov	ving powe	r on. 5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
11.Transient response time	No load (*12)	mS mS	300 Time for	600 output vo	800 Itage to re	900 cover wit	950 hin 0.5% o	1000 fits rated	1200 output fo	1900 r a load ch	2000 ange 10~9	2500 90% of rat	3000 ed output	4000 current. (	4000 Dutput set	3000 point:
12.Start up delay		Sec	10~100% Less than		nse. Less t	han 1mS, f	for models	up to and	Including	g 100V. 2m	is, for mod	iels above	100V.			
. , ,		Sec	Less inan	, sec												
CONSTANT CURRENT MODE			0.050/ -1	rated	out curre	.+										
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)					out curren											
3.Ripple r.m.s. @ 10% rated voltag	ae. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage		mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5.Temperature coefficient		PPM/°C	10V~100\ 150V~60				utput curre put currer							-		
6.Temperature stability							ollowing									
7. Warm-up drift							of rated ou	·								
					Idf1 +/-0.12		d output c	urrentove	1 50 11110	les lollow	ing power	011.				
ANALOG PROGRAMMING AND M	MONITORING (ISOLATED				101/	1				450/ 6	. 1.7 .					
1.Vout voltage programming 2.lout voltage programming (*15	5)						e. Accurac e. Accurac									
3.Vout resistor programming	,						electable.					Vout.		-		
4.lout resistor programming (*15	5)						electable.									
5.Output voltage monitor							cy: +/-0.5									
6.Output current monitor (*15)			0~5V or 0	0∼10V, use	r selectab	le. Accura	cy: +/-0.5	6. Of rated	lout.							
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPUT	Γ)														
1. Power supply OK #1 signal	ATED FROM THE OUTPUT						ollector. O	· ·							Current: 1	0mA.
1. Power supply OK #1 signal 2. CV/CC signal			CV/CC Mo	onitor. Op	en collect	or. CC mo	de: On. CV	mode: Of	f. Maximu	m Voltage	: 30V, Max	imum Sin	k Current:	10mA.		0mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro			CV/CC Mo Enable/D	onitor. Op isable ana	en collect alog progr	or. CC mo ramming c	de: On. CV control by	mode: Of electrical	f. Maximu signal or c	m Voltage Iry contac	: 30V, Max t. Remote:	imum Sin 0~0.6V or	k Current: r short. Lo	10mA. cal: 2~30V	or open.	
1. Power supply OK #1 signal 2. CV/CC signal			CV/CC Mo Enable/D analog pr	onitor. Op isable ana ogrammi	en collect alog progr ng control	or. CC moo amming o monitor s	de: On. CV	mode: Of electrical n collecto	f. Maximu signal or c r. Remote:	m Voltage Iry contac On. Local:	e: 30V, Max t. Remote: Off. Maxir	imum Sin 0~0.6V or num Volta	k Current: r short. Lo Ige: 30V, M	10mA. cal: 2~30V laximum S	or open.	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		  	CV/CC Mo Enable/D analog pr Enable/D Enable/D	onitor. Op isable and ogrammi isable PS isable PS	en collect alog progr ng control output by output by	or. CC mor amming c monitor s electrical electrical	de: On. CV control by ignal. Ope signal or o signal or o	mode: Of electrical n collecto dry contac	f. Maximu signal or c r. Remote t. 0~0.6V t. Remote	m Voltage Iry contac On. Local: or short, 2 :: 0~0.6V o	:: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo	imum Sinl 0~0.6V or num Volta pen. User s cal: 2~30V	k Current: r short. Lo ge: 30V, M selectable / or open.	10mA. cal: 2~30V laximum S logic.	or open.	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		   	CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper	onitor. Op isable ana ogrammi isable PS isable PS n drain pro	en collect alog progr ng control output by output by ogrammal	or. CC mo ramming o monitor s electrical electrical ole signals	de: On. CV control by ignal. Ope signal or o signal or o s. Maximur	mode: Of electrical n collecto dry contac dry contac n voltage	f. Maximu signal or o r. Remote: t. 0~0.6V t. Remote 25V, Maxi	m Voltage Iry contac On. Local: or short, 2 :: 0~0.6V o mum sink	e: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 10	imum Sinl 0~0.6V or num Volta pen. User s cal: 2~30V 00mA (Shu	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		    	CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu	onitor. Op isable ana ogrammii isable PS isable PS n drain pro m low lev	en collect alog progr ng control output by output by ogrammal vel input	or. CC mod ramming c monitor s electrical electrical ole signals voltage =	de: On. CV control by ignal. Ope signal or o signal or o . Maximur = 0.8V, Min	mode: Of electrical n collecto dry contac dry contac n voltage nimum hi	f. Maximu signal or c r. Remote t. 0~0.6V t. Remote 25V, Maxi igh level	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol	e: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.	imum Sinl 0~0.6V or num Volta pen. User cal: 2~30V 10mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		    	CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trij	onitor. Op isable and ogrammi isable PS isable PS n drain pro m low legger: tw=	en collect alog progr ng control output by output by ogrammat vel input =10us mir	or. CC mod amming c monitor s electrical electrical ole signals voltage = nimum. T	de: On. CV control by ignal. Ope signal or o signal or o s. Maximur	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum	f. Maximu signal or c r. Remote t. 0~0.6V t. Remote 25V, Maxi igh level	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol	e: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.	imum Sinl 0~0.6V or num Volta pen. User cal: 2~30V 10mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign		     	CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri	onitor. Op isable ana ogrammi isable PS isable PS n drain pro m low lev gger: tw= cal Voltag	en collect alog progr ng control output by output by ogrammak vel input =10us mir je: 0~0.6V	or. CC mod amming c monitor s electrical electrical ole signals voltage = nimum. T	de: On. CV control by ignal. Ope signal or o signal or o s. Maximur a 0.8V, Min r, Tf=1us N dry conta	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum	f. Maximu signal or c r. Remote t. 0~0.6V t. Remote 25V, Maxi igh level	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol	e: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.	imum Sinl 0~0.6V or num Volta pen. User cal: 2~30V 10mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal		    	CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri	onitor. Op isable ana ogrammi isable PS isable PS n drain pro m low lev gger: tw= cal Voltag	en collect alog progr ng control output by output by ogrammak vel input =10us mir je: 0~0.6V	or. CC mor amming c monitor s electrical electrical ole signals voltage = nimum. T /2~30V or	de: On. CV control by ignal. Ope signal or o signal or o s. Maximur a 0.8V, Min r, Tf=1us N dry conta	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum	f. Maximu signal or c r. Remote t. 0~0.6V t. Remote 25V, Maxi igh level	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol	e: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.	imum Sinl 0~0.6V or num Volta pen. User cal: 2~30V 10mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation		    	CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OP	nitor. Op isable and ogrammin isable PS isable PS n drain pro m low legger: tw- cal Voltag c, OV (5000	en collect alog progr ng control output by ogrammal vel input =10us mir e: 0~0.6V, ohm impe	or. CC mor ramming of monitor s electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa	de: On. CV control by ignal. Ope signal or o signal or o s. Maximur a 0.8V, Min r, Tf=1us N dry conta	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum ct.	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level h, Min del	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwe	:: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.: een 2 puls	imum Sinl 0~0.6V or num Volta pen. User cal: 2~30V 10mA (Shu 5V, Maxin	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
I. Power supply OK #1 signal     C. CVCC signal     J. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     ENABLE/DISABLE signal     G. INTERLOCK (ILC) control     7. Programmed signals     R. TRIGGER IN / TRIGGER OUT signal     DAISY_IN/SO control signal     IO.DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     I. Parallel operation     Z. Series operation			CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge tria By electri 4~5V=OP Possible. Consult v	nitor. Op isable and ogrammin isable PS isable PS n drain pro m low legger: tw- cal Voltag C, OV (5000 Up to fou	en collect alog progr ng control output by ogrammal yogrammal vel input =10us mir =10us mir e: 0~0.6V, ohm impe r (4) identi ry	or. CC moo amming c monitor s electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa cal GSP ur	de: On. CV control by ignal. Ope signal or of signal or of signal or of signal or of s. Maximur e. 0.8V, Min r, Tf=1us N dry conta ail	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum ct.	f. Maximu signal or o r. Remote t. 0~0.6V t. Remote 25V, Maxi igh level a, Min del	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwee	:: 30V, Maxi t. Remote: Off. Maxir ~30V or oj r short. Lo current 10 tage = 2. Sen 2 puls	imum Sinl 0~0.6V or num Volta pen. User s cal: 2~30V 00mA (Shu 5V, Maxin ies 1ms.	k Current: r short. Lo ge: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     3. Daisy chain			CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge trii By electri 4~5V=Of Possible. Consult v Power su	nitor. Op isable and ogrammin isable PS isable PS n drain pro m low legger: tw- cal Voltag C, OV (5000 Up to fou vith Facto pplies car	en collect alog progr ng control output by output by ogrammal vel input =10us mir =10us mir =10us mir =10us mir (4) identi ry h be conne	or. CC mo- ramming c monitor s electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa cal GSP ur	de: On. CV control by ignal. Ope signal or of signal of si	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum ct. ore power to synchro	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level t, Min del please co pnize thei	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwee onsult with turn-on a	:: 30V, Maxx t. Remote: Off. Maxir ~30V or oj r short. Lo current 10 tage = 2.  en 2 puls h Factory. in Factory.	imum Sinl 0~0.6V or num Volta pen. User s cal: 2~30V 10mA (Shu 5V, Maxin ses 1ms.	k Current: r short. Lo ge: 30V, M selectable ( or open. inted by 2 num high	10mA. cal: 2~30V laximum S e logic. 7V zener) n level inp	f or open. ink Curren	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control			CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge tria By electri 4~5V=OP Possible. Consult v Power su Limits tho	nitor. Op isable and ogrammin isable PS isable PS n drain pro m low legger: tw- cal Voltag c, OV (5000 Up to fou vith Facto pplies car e output p	en collect alog progr ng control output by output by ogrammal vel input =10us mir e: 0~0.6V, ohm impe r (4) identi ry t (4) identi ry b be conne ower to a	or. CC moor ramming c monitor s electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggran	de: On. CV control by ignal. Ope signal or of signal of of signal of signal of si	mode: Of electrical n collecto dry contac dry contac n voltage nimum h Aaximum ct. ore power to synchro e. Prograr	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level t, Min del please co pnize thei nming via	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwee onsult with r turn-on a the comn	:: 30V, Maxi t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.: een 2 puls Factory.	imum Sinl 0~0.6V or num Volta pen. User s cal: 2~30V i0mA (Shu 5V, Maxin ies 1ms. ff. ports or t	k Current: r short. Loo ge: 30V, M selectable / or open. nuted by 2' num high	10mA. cal: 2~30V laximum S e logic. 7V zener) n level inp	' or open. ink Curren	t: 10mA.
I. Power supply OK #1 signal     C. CVCC signal     J. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     3. Daisy chain			CV/CC Mo Enable/D Enable/D Enable/D Two oper Maximu edge trig By electri 4~5V=OP Possible. Consult v Power su Limits the Emulates Program	nitor. Op isable ana ogrammi isable PS isable PS a drain pre gger: tw= cal Voltag c, 0V (500) Up to fou vith Facto pplies car e output p series res mable Ou	en collect alog progr ng control output by output by ogrammal vel input =10us mir =10us mir =10u	or. CC moor ramming c monitor s electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggran esistance	de: On. CV control by ignal. Ope signal or c signal or	mode: Of electrical n collecto dry contac dry contac dry contac n voltage nimum h Aaximum ct. ore power to synchro e. Program 1000mΩ. F	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level h, Min del please cc pnize thei nming via Programm	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwee onsult with turn-on a the comn ing via the	:: 30V, Maxi t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2.: een 2 puls h Factory. in Factory. ind turn-o hunication e commun	imum Sinl 0~0.6V or num Volta pen. User s cal: 2~30V i0mA (Shu 5V, Maxin ies 1ms. ff. ports or t ication pc	k Current: r short. Loo ge: 30V, M selectable / or open. .ntted by 2' num high num high 	10mA. cal: 2~30V laximum S logic. 7V zener) n level inp n level inp n level inp n level finp front pan	' or open. ink Curren put = 5V p el.	t: 10mA.
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal <b>FUNCTIONS AND FEATURES</b> 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control			CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Two oper Maximu edge trig By electri 4~5V=OP Possible. Consult v Power su Limits the Emulates Programu	nitor. Op iisable ana ogrammi isable PS isable PS n drain pro- gger: tw= cal Voltag C, OV (5000 Up to fou vith Facto pplies car e output p series res mable Ou ication pc	en collect alog progr ng control output by output by ogrammal vel input =10us mir je: 0~0.6V, ohm impe r (4) identi ry b be conne ower to a istance. Ri tput rise or the	or. CC moor ramming c monitor s electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa ical GSP ur ected in Da proggran esistance nd Outpuy front pand	de: On. CV control by ignal. Ope signal or c signal or	mode: Of electrical n collecto dry contac dry contac dry contac n voltage n voltage voltage voltage volta	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level please co please co pnize thei nming via Programm ramming i	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwee onsult with turn-on a the comn ing via the ange: 0.00	:: 30V, Maxi t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2. leen 2 puls a Factory. ind turn-o nunication a commun 001~999.9	imum Sini 0~0.6V or num Volta pen. User s cal: 2~30V 00mA (Shu SV, Maxin tes 1ms. ff. ports or t ication pc 9 V/mSec.	k Current: r short. Lo- ge: 30V, M selectable ( or open. inted by 2 num high the front p orts or the or A/mSec	10mA. cal: 2~30V laximum S logic. 7V zener) h level inp h level inp h level inp h level inp canel. front pan c. Program	' or open. ink Curren put = 5V p el. nming via	t: 10mA.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT signal     10. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBACCH	nals		CV/CC Mo Enable/D analog pr Enable/D Two oper Maximu edge tri, By electri 4~5V=Of Possible. Consult v Power su Limits the Emulates Programi commun Profiles o	nitor. Op isable ana ogrammi isable PS isable PS isable PS isable PS or drain pro- cal Voltage c, OV (5000 Up to fou vith Facto pplies car e output p series res mable Ou ication pc f up to 10	en collect alog progr ng control output by output by ogrammal vel input =10us mir e: 0~0.6V, ohm impe r (4) identi ry h be conne ower to a istance. Ri tput rise a rts or the 0 steps ca	or. CC mod amming c monitor s electrical electrical electrical ole signals voltage = nimum. T /2~30V or dance)=Fa cal GSP ur ected in Da proggram esistance i nd Outpu front pann n be store	de: On. CV control by ignal. Ope signal or of signal or of signal or of signal or of a Maximur = 0.8V,Min r,Tf=1us N dry conta ail dry conta ail aisy chain mmed valu range: 1~ t fall slew t el. d in 4 mer	mode: Of electrical n collecto dry contac dry contac dry contac n voltage nimum h Aaximum ct. ore power to synchre e. Prograf 1000mΩ. F rate. Progra nory cells.	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level b, Min del please cc onize thei nming via Programm ragming i Activatio	m Voltage Iry contac On. Local: or short, 2 : 00.6V o mum sink input vol ay betwee onsult with r turn-on a the comm ing via the range: 0.00 n by comm	:: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 1C tage = 2. :een 2 puls a Factory. and turn-o municatiom commun 001~999.9' mand via th	imum Sinl 0~0.6V or num Volta Sen. User s cal: 2~30V 10mA (Shu 5V, Maxin ses 1ms. ff. ports or t ication pc 9 V/mSec.	k Current: r short. Loo gg: 30V, M selectable / or open. inted by 2 num high the front p orts or the or A/mSec inication p	10mA. cal: 2~30V laximum S logic. 7V zener) h level inj h level inj h level inj h level pan c. Program ports or by	f or open. ink Curren put = 5V p el. nming via t the front	t: 10mA.
Power supply OK #1 signal     CV/CC signal     CV/CC signal     LOCAL/REMOTE Analog control     LOCAL/REMOTE Analog signal     S.ENABLE/DISABLE signal     INTERLOCK (ILC) control     Programmed signals     TRIGGER IN / TRIGGER OUT signal     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     I. Parallel operation     S. Daisy chain     4. Constant power control     S. Output resistance control     S. Slew rate control     A. Constant power forms  PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)((	nals K (USB, LAN, *20) Interfaces)		CV/CC Mo Enable/D analog pr Enable/D Two oper Maximu edge tris By electri 4~5V=Of Possible. Consult v Power su Limits thh Emulates Programu commun Profiles o <b>10</b>	nitor. Op isable an ogrammi isable PS isable PS isable PS isable PS isable PS of drain pro- gger: two- cal Voltag cal Voltag cal Voltag col Vol	en collect alog progr ng control output by output by ogrammab vel input =10us mir e: 0~0.6V, ohm impe r (4) identi ry h be conne ower to a istance. Ri tput rise a rts or the 0 steps ca 30	or. CC mod amming c monitor s electrical electrical ole signals voltage = nimum. T (2~30V or dance)=Fa cal GSP ur ected in Da proggran esistance nd Outpu front pano n be store 40	de: On. CV control by ignal. Ope signal or o signal or o s. Maximur e 0.8Y, Mir r,Tf=1us N dry conta ail nits. For m aisy chain nmed valu range: 1~ t fall slew r el.	mode: Of electrical n collecto dry contac dry contac dry contac n voltage n voltage voltage voltage volta	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level please co please co pnize thei nming via Programm ramming i	m Voltage Iry contac On. Local: or short, 2 : 0~0.6V o mum sink input vol ay betwee onsult with turn-on a the comn ing via the ange: 0.00	:: 30V, Maxi t. Remote: Off. Maxir ~30V or op r short. Lo current 10 tage = 2. leen 2 puls a Factory. ind turn-o nunication a commun 001~999.9	imum Sini 0~0.6V or num Volta pen. User s cal: 2~30V 00mA (Shu SV, Maxin tes 1ms. ff. ports or t ication pc 9 V/mSec.	k Current: r short. Lo- ge: 30V, M selectable ( or open. inted by 2 num high the front p orts or the or A/mSec	10mA. cal: 2~30V laximum S logic. 7V zener) h level inp h level inp h level inp h level inp canel. front pan c. Program	' or open. ink Curren put = 5V p el. nming via	t: 10mA.
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1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sign     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control     7. Arogramming accuracy (*1     3.Vout programming resolution     4.Lout programming resolution     4.Lout programming resolution	nals K (USB, LAN, *20) Interfaces)		CV/CC Mo Enable/D analog pr Enable/D Enable/D Two oper Maximu edge tris By electri 4~5V=Of Possible. Consult v Power su Limits the Emulates Program commun Profiles o <b>10</b> 0.05% of r 0.002% o 0.002% o 0.002% o	nitor. Op isable ana ogrammi isable PS isable PS isable PS isable PS isable PS cal Voltag ger: tw- cal Voltag cal Voltag	en collect alog progr ng control output by output by output by ogrammal vel input =10us mir e: 0~0.6V, obm impe r (4) identi ry t (4) identi r	or. CC moder amming of monitor s electrical electrical electrical electrical electrical electrical signals voltage = nimum. T /2~30V or dance)=Fa ical GSP un ected in Da proggram esistance i nd Outpu front pane n be store <b>40</b> ee	de: On. CV control by ignal. Ope signal or of signal or of signal or of signal or of a Maximur = 0.8V,Min r,Tf=1us N dry conta ail dry conta ail aisy chain mmed valu range: 1~ t fall slew t el. d in 4 mer	mode: Of electrical n collecto dry contac dry contac dry contac n voltage nimum h Aaximum ct. ore power to synchre e. Prograf 1000mΩ. F rate. Progra nory cells.	f. Maximu signal or c r. Remote: t. 0~0.6V t. Remote 25V, Maxi igh level b, Min del please cc onize thei nming via Programm ragming i Activatio	m Voltage Iry contac On. Local: or short, 2 : 00.6V o mum sink input vol ay betwee onsult with r turn-on a the comm ing via the range: 0.00 n by comm	:: 30V, Max t. Remote: Off. Maxir ~30V or op r short. Lo current 1C tage = 2. :een 2 puls a Factory. and turn-o municatiom commun 001~999.9' mand via th	imum Sinl 0~0.6V or num Volta Sen. User s cal: 2~30V 10mA (Shu 5V, Maxin ses 1ms. ff. pports or t ication pc 9 V/mSec.	k Current: r short. Loo gg: 30V, M selectable / or open. inted by 2 num high the front p orts or the or A/mSec inication p	10mA. cal: 2~30V laximum S logic. 7V zener) h level inj h level inj h level inj h level pan c. Program ports or by	f or open. ink Curren put = 5V p el. nming via t the front	t: 10mA.
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## GENESYS<sup>™</sup> GSP15kW SERIES SPECIFICATIONS

OUTPUT RATING		GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.
1.Rated output voltage(*1)		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power		kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 v	vire + Ground (*4)		3-Phase, 2 3-Phase, 4	00V mode	els: 342~4	60Vac, 47 <sup>,</sup>	~63Hz (Co	vers 380/	400/415Va							
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models:		3-Phase, 4 52.5A @ 20 27.6A @ 38	00Vac	els: 342~5.	28Vac, 47	~63Hz (Co	vers 380/4	100/415/44	0/460/48	OVac)					
	3-Phase, 480V models:		27.6A @ 38													
3.Power Factor (Typ)		 %	0.94 @ 200					01	01	01	01	01	02	02	01	02
4.Efficiency (Typ) (*5) (*22) 5.Inrush current (*6)		% A	89 (*21) Less than	90 1504	91	91	91	91	91	91	91	91	92	92	91	92
6.AC line phase imbalance		%	< 5%	IJUA												
		V		20	20	40	50	60		100	150	200	200	400	500	600
CONSTANT VOLTAGE MODE			10 0.01% of ra	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*8)			0.01% of ra	· · · ·												
3.Ripple and noise (p-p, 20MHz)	(*0)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C				1					20	1.5		00	00	100
6.Temperature stability			0.01% of ra								t line, loa	d & temp.				
7. Warm-up drift			Less than (													
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS	Time for o 10~100%,	utput voli Local sen	tage to rec	cover with an 1mS fr	nn 0.5% of Sr models	up to and	output for	a load ch 100V 2m	ange 10~ S. for more	90% of rat	ed output	t current. (	Jutput se	t-point:
12Start up delay		Sec	Less than 7		JC. 2033 (11	an 1113, I	. mouels	ap to anu	menaumy	.008.211			. 1009.			
			1						0.5	100	150	200	200	46.5		(
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)			0.05% of ra 0.08% of ra													
3.Ripple r.m.s. @ 10% rated voltage	ae BW5Hz~1MHz (*14)	mA	2000	1200	600	300	250	180	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage	•	mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
			10V~100V						ing 30 min			25	1.15	715		
5.Temperature coefficient		PPM/°C	<u> </u>						ng 30 minu							
6.Temperature stability			0.01% of ra	ated lout o	over 8hrs.	interval fo	ollowing 3	0 minutes	warm-up	. Constan	t line, load	d & tempe	rature.			
7. Warm-up drift			10V~100V													
			150V~600	V: Less tha	an +/-0.15	% of rated	output cu	urrent ove	r 30 minut	es follow	ing powe	r on.				
ANALOG PROGRAMMING AND	MONITORING (ISOLATED	FROM T	HE OUTPU	T)												
1.Vout voltage programming			0~100%, 0	~5V or 0~	-10V, user	selectable	e. Accurac	y and line	arity: +/-0.	15% of ra	ted Vout.					
2.lout voltage programming (*1	5)		0~100%, 0													
3.Vout resistor programming			0~100%, 0													
4.lout resistor programming (*15	5)		0~100%, 0							ty: +/-0.5	% of rated	l lout.				
5.Output voltage monitor (*23) 6.Output current monitor (*15) (*	*22)					e. Accurac			Vout.							
6.Output current monitor (*13) (*					coloctabl		y: +/-0.5%		lout							
			0~5V Or 0^	-100, user	selectabl		:y: +/-0.5% :y: +/-0.5%		lout.							
SIGNALS AND CONTROLS (ISOL		Γ)				e. Accurac	y: +/-0.5%	6. of rated								
1. Power supply OK #1 signal		r) 	Power sup	ply outpu	ut monitor	e. Accurac	:y: +/-0.5% llector. Ou	6. of rated	On. Outpu						Current:	10mA.
1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPUT	[) 	Power sup CV/CC Mor	ply outpunitor. Ope	ut monitor en collecto	e. Accurac . Open co or. CC mod	llector. Ou le: On. CV	6. of rated utput On: 0 mode: Off	On. Outpu f. Maximur	n Voltage	e: 30V, Max	kimum Sin	k Current:	10mA.		
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	ATED FROM THE OUTPUT	r)  	Power sup CV/CC Mor Enable/Dis	ply outpu nitor. Ope sable anal	ut monitor en collecto log progra	e. Accurac . Open co or. CC mod amming co	llector. Ou le: On. CV ontrol by e	6. of rated utput On: 0 mode: Off electrical s	On. Outpu f. Maximur signal or d	n Voltage ry contac	e: 30V, Max t. Remote	kimum Sin : 0~0.6V o	k Current: r short. Lo	10mA. cal: 2~30V	or open.	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPUT	T)   	Power sup CV/CC Mor Enable/Dis analog pro	ply outpunitor. Ope sable anal	ut monitor en collecto log progra g control i	e. Accurad . Open co wr. CC mod amming co monitor si	Ilector. Ou le: On. CV ontrol by e gnal. Ope	6. of rated utput On: ( mode: Off electrical s n collector	On. Outpu f. Maximur signal or d r. Remote:	n Voltage ry contac On. Local:	e: 30V, Max t. Remote : Off. Maxi	kimum Sin : 0~0.6V o mum Volta	k Current: r short. Lo age: 30V, N	10mA. cal: 2~30V laximum S	or open.	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal	ATED FROM THE OUTPUT	r)  	Power sup CV/CC Mor Enable/Dis analog pro Enable/Dis	ply outpunitor. Ope sable anal ogrammin sable PS o	ut monitor en collecto log progra g control i putput by e	e. Accurad . Open co or. CC mod amming co monitor si electrical	Ilector. Ou le: On. CV ontrol by e gnal. Open	6. of rated utput On: 6 mode: Off electrical s n collector Iry contac	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c	n Voltage ry contac On. Local or short, 2	e: 30V, Max t. Remote Off. Maxi ~30V or o	kimum Sin : 0~0.6V o mum Volta pen. User	k Current: r short. Lo age: 30V, N selectable	: 10mA. cal: 2~30V 1aximum S e logic.	or open.	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPUT	T)    	Power sup CV/CC Mor Enable/Dis analog pro	ply outpu nitor. Ope sable anal ogrammin sable PS o sable PS o	ut monitor en collecto log progra g control i output by o output by o	e. Accurac Open co or. CC mod amming co monitor si electrical	Ilector. Ou le: On. CV ontrol by e gnal. Oper signal or d	6. of rated utput On: 6 mode: Off electrical s n collector Iry contac Iry contac	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote:	m Voltage ry contac On. Local or short, 2 0~0.6V o	e: 30V, Max t. Remote Off. Maxi ~30V or o r short. Lo	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\	k Current: r short. Lo age: 30V, M selectable / or open.	: 10mA. 	or open.	
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals	ATED FROM THE OUTPUT	r)    	Power sup CV/CC Mor Enable/Dis analog pro Enable/Dis Enable/Dis Two open Maximum	ply outpunitor. Ope sable analogrammin sable PS o sable PS o drain pro low level	at monitor en collecto log progra g control i output by e output by e grammab input volt	e. Accurac Open co or. CC mod amming co monitor si electrical electrical electrical signals. age = 0.8	llector. Ou le: On. CV ontrol by e signal. Oper signal or d signal or d Maximun V.Minimu	6. of rated utput On: 0 mode: Off electrical s n collector lry contac ry contac n voltage s m high lev	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vo	n Voltage ry contac On. Local: or short, 2 0~0.6V o num sink oltage = 2	e: 30V, Max t. Remote Off. Maxi ~30V or o r short. Lo current 10	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\ 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	ATED FROM THE OUTPUT	r)     	Power sup CV/CC Mor Enable/Dis analog pro Enable/Dis Enable/Dis Two open Maximum tw=10us n	ply outpunitor. Ope sable anal ogrammin sable PS o sable PS o drain pro low level ninimum.	It monitor en collecto log progra g control i output by e output by e grammab input volt Tr,Tf=1us	e. Accurace . Open co or. CC mod amming co monitor si electrical electrical electrical signals. age = 0.8 Maximum	Ly: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Oper signal or d signal or d Maximun V, Minimur , Min dela	6. of rated utput On: 6 mode: Off electrical s n collector lry contac lry contac n voltage s m high lev y between	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vo	n Voltage ry contac On. Local: or short, 2 0~0.6V o num sink oltage = 2	e: 30V, Max t. Remote Off. Maxi ~30V or o r short. Lo current 10	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\ 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sig 9. DAISY_IN/SO control signal	ATED FROM THE OUTPUT	[)      	Power sup CV/CC Mor Enable/Dis analog pro Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric	ply outpunitor. Ope sable analogrammin sable PS o sable PS o drain pro low level ninimum. al Voltage	at monitor en collecto log progra g control i putput by o grammab input volt Tr,Tf=1us e: 0~0.6V/2	e. Accurace . Open co rr. CC mod amming co monitor si electrical : electrical : electrical : electrical : age = 0.8 Maximum 2~30V or o	Ilector. Ou le: On. CV ontrol by e gnal. Oper signal or d Maximun V, Minimuu , Min dela dry contac	6. of rated utput On: 6 mode: Off electrical s n collector lry contac lry contac n voltage s m high lev y between	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vo	n Voltage ry contac On. Local: or short, 2 0~0.6V o num sink oltage = 2	e: 30V, Max t. Remote Off. Maxi ~30V or o r short. Lo current 10	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\ 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
Power supply OK #1 signal     CV/CC signal     SUCAL/REMOTE Analog contro     LOCAL/REMOTE Analog signal     SUNABLE/DISABLE Signal     INTERLOCK (ILC) control     Programmed signals     RTRIGGER IN / TRIGGER OUT signal     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal	ATED FROM THE OUTPUT	r)     	Power sup CV/CC Mor Enable/Dis analog pro Enable/Dis Enable/Dis Two open Maximum tw=10us n	ply outpunitor. Ope sable analogrammin sable PS o sable PS o drain pro low level ninimum. al Voltage	at monitor en collecto log progra g control i putput by o grammab input volt Tr,Tf=1us e: 0~0.6V/2	e. Accurace . Open co rr. CC mod amming co monitor si electrical : electrical : electrical : electrical : age = 0.8 Maximum 2~30V or o	Ilector. Ou le: On. CV ontrol by e gnal. Oper signal or d Maximun V, Minimuu , Min dela dry contac	6. of rated utput On: 6 mode: Off electrical s n collector lry contac lry contac n voltage s m high lev y between	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vo	n Voltage ry contac On. Local: or short, 2 0~0.6V o num sink oltage = 2	e: 30V, Max t. Remote Off. Maxi ~30V or o r short. Lo current 10	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\ 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog control     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sig     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES	ATED FROM THE OUTPUT	<pre> )</pre>	Power sup CV/CC Moi Enable/Di: analog proc Enable/Di: Two open Maximum tw=10us n By electric 4~5V=OK,	ply outpunitor. Ope sable anal grammin sable PS o sable PS o drain pro low level ninimum. sal Voltage OV (5000	at monitor en collecto log progra g control i sutput by grammab input volt Tr,Tf=1us l e: 0~0.6V/ hm impec	e. Accurace . Open co rr. CC mod amming cc monitor si electrical : electrical : ele	ry: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Oper signal or d signal or d Maximun V, Minimun , Min dela dry contac il	6. of rated utput On: 0 electrical s n collector lry contac n voltage : m high lev y between ct.	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vu n 2 pulses	n Voltage ry contac On. Local: or short, 2 0~0.6V o num sink bltage = 2 1ms.	e: 30V, Max t. Remote : Off. Maxi ~30V or o r short. Lo current 10 2.5V, Maxin	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\ 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
I. Power supply OK #1 signal     CV/CC signal     J. LOCAL/REMOTE Analog control     LOCAL/REMOTE Analog signal     S. ENABLE/DISABLE Signal     G. INTERLOCK (ILC) control     Programmed signals     R.TRIGGER IN / TRIGGER OUT signal     D.DAISY_IN/SO control signal     D.DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     I. Parallel operation	ATED FROM THE OUTPUT		Power sup CV/CC Moi Enable/Dii Enable/Dii Enable/Dii Enable/Dii Two open Maximum Maximum By electric 4~5V=OK, Possible, L	ply outpunitor. Ope sable anal ogrammin sable PS o drain pro low level ninimum. al Voltage OV (5000	at monitor en collecto log progra g control i sutput by v grammab input volt Tr,Tf=1us e: 0~0.6V/ hm impec	e. Accurace . Open co rr. CC mod amming cc monitor si electrical : electrical : ele	ry: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Oper signal or d signal or d Maximun V, Minimun , Min dela dry contac il	6. of rated utput On: 0 electrical s n collector lry contac n voltage : m high lev y between ct.	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vu n 2 pulses	n Voltage ry contac On. Local: or short, 2 0~0.6V o num sink bltage = 2 1ms.	e: 30V, Max t. Remote : Off. Maxi ~30V or o r short. Lo current 10 2.5V, Maxin	kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30\ 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
Power supply OK #1 signal     CV/CC signal     CV/CC signal     LOCAL/REMOTE Analog contro     LOCAL/REMOTE Analog signal     S. ENABLE/DISABLE Signal     G. INTERLOCK (ILC) control     Programmed signals     R.TRIGGER IN / TRIGGER OUT signal     DAISY_IN/SO control signal     D.DAISY_UN/SO control signal     D.DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     Parallel operation     S. Series operation	ATED FROM THE OUTPUT	()        -	Power sup CV/CC Moi Enable/Di: analog proc Enable/Di: Enable/Di: Two open Maximum tw=10usn By electric 4~5V=OK, Possible. L Consult wi	ply outpunitor. Ope sable anal ogrammin sable PS o sable PS o drain pro low level ninimum. ial Voltage OV (5000 Up to four ith Factor.	at monitor en collecto log progra g control i sutput by v grammab input volt Tr,Tf=1us l a: 0~0.6V/. hm impec	e. Accurace . Open co or. CC mode amming co monitor si electrical : electrical : el	y: +/-0.5% Illector. Ou le: On. CV ontrol by o gnal. Oper signal or d signal or d Maximun V,Minimur , Min dela dry contac il	6. of rated utput On: 4 mode: Off electrical s n collector fry contac fry contac fr	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir rel input vo n 2 pulses please co	n Voltage ry contac On. Local or short, 2 0~0.6V o num sink oltage = 2 1ms.	2: 30V, Max t. Remote : Off. Maxii ~30V or o r short. Lo current 10 2.5V, Maxii	kimum Šin : 0~0.6V o mum Voltz pen. User ocal: 2~30\ DOmA (Shu mum high	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	' or open. iink Curre	nt: 10mA
Power supply OK #1 signal     CV/CC signal     SUCAL/REMOTE Analog contro     LOCAL/REMOTE Analog signal     SURABLE/DISABLE Signal     INTERLOCK (ILC) control     Programmed signals     TRIGGER IN / TRIGGER OUT signal     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     Series operation     Subaisy chain	ATED FROM THE OUTPUT		Power sup CV/CC Moi Enable/Di: Enable/Di: Enable/Di: Two open Maximum tw=10us n By electric 4~5V=OK, Possible, L Consult wi Power sup	ply outpunitor. Ope sable analogrammin sable PS of sable PS of drain pro low level ninimum. al Voltage OV (5000 Jp to four ith Factor pplies can	It monitor in collecto log progra g control i butput by o utput by o grammab input volt Tr,Tf=lus e: 0~0.6V/ hm impec (4) identic y be connect	e. Accurace . Open co or. CC mode amming co monitor si electrical : electrical : le signals. cage = 0.8 Maximum 2~30V or of lance)=Fa cal GSP un cal GSP un cted in Da	y: +/-0.5% Ilector. Ou le: On. CV ontrol by o gnal. Oper signal or d signal or d disignal or d Maximun V, Minimun V, Minimun V, Minimun I, Min dela dry contac il its. For mo	6. of rated utput On: 4 mode: Off electrical s n collector lry contac n voltage : m high lev y between ct. pre power to synchroc	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V c t. Remote: 25V, Maxir 25V, Maxir rel input vo n 2 pulses please co onize their	n Voltage ry contac On. Local or short, 2 0~0.6V o num sink oltage = 2 1ms.	2: 30V, Max t. Remote 2: Off. Maxi 2:~30V or o 2: solver a short. Lo 2: current 10 2: SV, Maxi 2: SV, Maxi 2: solver a short. Lo 2: solver a short. Lo 3: solver a short. Lo 4:	kimum Sin : 0~0.6V o mum Voltz pen. User ocal: 2~30\ DOmA (Shu mum high	k Current: Lo age: 30V, M selectable / or open. Inted by 2 level inpu	10mA. cal: 2~30V Maximum S e logic. 7V zener) it = 5V pos	' or open. iink Curre	nt: 10mA
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT signal     10. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control	ATED FROM THE OUTPUT	()        -	Power sup CV/CC Moi Enable/Dii Enable/Dii Enable/Dii Two open Maximum tw=10us n By electric 4~5V=OK, Possible. L Consult wi Power sup Limits the	ply outpunitor. Ope sable analogrammin sable PS of sable PS of drain pro low level ninimum. al Voltage OV (5000 Up to four ith Factor plies can output po	It monitor in collecto log progra g control i butput by o grammab input volt Tr,Tf=1us l : 0~0.6// hm impec (4) identic y be connee	e. Accurace . Open co or. CC mod amming co monitor si electrical : electrical : electrical : electrical : electrical : electrical : electrical : electrical : electrical : electrical : and electrical : allectrical : electrical	y: +/-0.5% Ilector. Ou le: On. CV ontrol by o gnal. Oper signal or o signal or o signal or o signal or o dry contact il its. For mo isy chain t med value	6. of rated utput On: 4 mode: Off electrical s n collector iry contac ry contac r	On. Outpu f. Maximur signal or d r. Remote: t. O~O.6V c t. Remote: 25V, Maxir el input vo n 2 pulses please co onize their nming via	n Voltage ry contac On. Local or short, 2 0~0.6V co num sink bltage = 2 1ms. nsult with turn-on a the comn	2: 30V, Max t. Remote 2: Off. Maxi 2:	kimum Sin : 0~0.6V o mum Volta pen. User ccal: 2~30\ DOmA (Shu mum high 	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu	i 10mA. cal: 2~30V laximum S e logic. 7V zener) it = 5V pos banel.	' or open. iink Curre iitive edg	nt: 10mA
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT signal     10. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control	ATED FROM THE OUTPUT	()        -	Power sup CV/CC Moi Enable/Di: Enable/Di: Enable/Di: Two open Maximum tw=10us n By electric 4~5V=OK, Possible, L Consult wi Power sup	ply outpunitor. Ope sable analogrammin sable PS of sable PS of drain pro- low level ninimum. al Voltage oV (5000 Up to four ith Factor, pplies can output pp series resis	ut monitor n collecto log progra g control i uutput by o grammab input voll rr,Tf=1us l e: 0~0.6/// hm impec	e. Accurace . Open co or. CC mode amming co monitor si electrical : electrical :	y: +/-0.5% llector. Ou le: On. CV ontrol by o gnal. Oper signal or d Maximum V,Minimuu , Min dela dry contac il its. For mo isy chain 1 med valuu ange: 1~1	6. of rated utput On: ( mode: Off electrical s n collector Iry contac rn voltage. m high lev y between ct.	On. Outpu f. Maximur signal or d r. Remote: t. O~0.6V o t. Remote: 25V, Maxir 25V, Maxir el input vo n 2 pulses please co onize their nming via trogrammi	n Voltage ry contac On. Local or short, 2 0~0.6V o num sink oltage = 2 1ms. nsult with turn-on a the comm	e: 30V, Maxi t. Remote : Off. Maxi ~30V or o r short. Lc current 10 2.5V, Maxi a Factory. and turn-c nunication e commun	kimum Sin : 0~0.6V o mum Volta pen. User ccal: 2~30\ 20mA (Shu mum high 	k Current: Lo age: 30V, M selectable / or open. Inited by 2 level inpu level inpu the front p ports or the	10mA. cal: 2~30V laximum S clogic. 7V zener) ut = 5V pos banel. front pan	' or open. ink Curre sitive edg	nt: 10mA e trigger
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog controt     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT signal     10. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control	ATED FROM THE OUTPUT		Power sup CV/CC Moi Enable/Dis Enable/Dis Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric 4~5V=OK, Possible. L Consult wi Power sup Limits the Emulates s Programm	ply outpunitor. Ope sable anal grammin sable PS of able PS of drain pro- low level ninimum. al Voltage 0V (5000 VV (5000 VV (5000 vv loson plies can output pe series resis able Output cation por	at monitor en collecto log progra g control i putput by e grammab input volt Tr,Tf=lus i e: 0~0.6W/ hm impec (4) identic y be connet power to a p stance. Re power to a p stance. Re power to a p	e. Accurace . Open co . Open co . T. C mod amming co monitor si electrical : electrical : el	y: +/-0.5% Ilector. Ou le: On. CV ontrol by o gnal. Opee signal or of signal or of signal or of Maximun V, Minimuu , Min dela dry contac il its. For mo isy chain t med value ange: 1–1 fall slew r I.	6. of rated utput On: 4 mode: Off electrical s n collector lry contac ry contac ry contage n voltage i m high leve y between ct.	Dn. Outpu f. Maximur signal or d r. Remote: t. O~O.6V (t. t. Remote: 25V, Maxir el input vo n 2 pulses please co pnize their nming via rrogrammi amming ra	n Voltage ry contac On. Local or short, 2 0~0.6V o num sink oltage = 2 1ms. nsult with turn-on a the comm ng via the ange: 0.00	e: 30V, Maxi t. Remote : Off. Maxi ~30V or o r short. Lc current 10 2.5V, Maxin h Factory. and turn-c nunication e commur 201~999.9	kimum Sin : 0~0.6V o mum Volta pen. User pocal: 2~30V DOMA (Shu mum high ff. n ports or n nication po 9 V/mSec.	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu level inpu the front p orts or the or A/mSe	10mA. cal: 2~30V laximum S e logic. 7V zener) ut = 5V pos banel. front pan c. Program	' or open. ink Curre sitive edg el. nming via	nt: 10mA e trigger
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog contro     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT signal     10. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     2. Series operation     3. Daisy chain     4. Constant power control     5. Output resistance control	ATED FROM THE OUTPUT	()        -	Power sup CV/CC Moi Enable/Di: analog proc Enable/Di: Enable/Di: Two open Maximum tw=10us n By electric 4~5V=OK, Possible, L Consult wi Power sup Limits the Emulates s Programm	ply outpunitor. Ope sable anal grammin sable PS of able PS of drain pro- low level ninimum. al Voltage 0V (5000 VV (5000 VV (5000 vv (sooo vv (sooo) vv (sooo) vv (sooo vv (sooo) vv (sooo) v	at monitor en collecto log progra g control i putput by e grammab input volt Tr,Tf=lus i e: 0~0.6W/ hm impec (4) identic y be connet power to a p stance. Re power to a p stance. Re power to a p	e. Accurace . Open co .r. CC mod amming co monitor si electrical : electrical : ele	y: +/-0.5% Ilector. Ou le: On. CV ontrol by o gnal. Opee signal or of signal or of signal or of Maximun V, Minimuu , Min dela dry contac il its. For mo isy chain t med value ange: 1–1 fall slew r I.	6. of rated utput On: 4 mode: Off electrical s n collector lry contac ry contac ry contage n voltage i m high leve y between ct.	Dn. Outpu f. Maximur signal or d r. Remote: t. O~O.6V (t. t. Remote: 25V, Maxir el input vo n 2 pulses please co pnize their nming via rrogrammi amming ra	n Voltage ry contac On. Local or short, 2 0~0.6V o num sink oltage = 2 1ms. nsult with turn-on a the comm ng via the ange: 0.00	e: 30V, Maxi t. Remote : Off. Maxi ~30V or o r short. Lc current 10 2.5V, Maxin h Factory. and turn-c nunication e commur 201~999.9	kimum Sin : 0~0.6V o mum Volta pen. User pocal: 2~30V DOMA (Shu mum high ff. n ports or n nication po 9 V/mSec.	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 level inpu level inpu the front p orts or the or A/mSe	10mA. cal: 2~30V laximum S e logic. 7V zener) ut = 5V pos banel. front pan c. Program	' or open. ink Curre sitive edg el. nming via	nt: 10mA e trigger
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1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog control     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sig     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     10. DAISY_OUT/PS_OK #1 signal     10. Signal     10. DAISY_OUT/PS_OK #1 signal     10. DAISY_OUT/PS_OK #1 signal     10. DAISY_OUT/PS_OK #1 signal     10. DAISY_OUT/PS_OK #1 signal     10. Uprogramming accuracy (#     3. Suout programming resolution     4. lout programming resolution	ATED FROM THE OUTPUT	)         	Power sup CV/CC Moi Enable/Dii analog pro Enable/Dii Enable/Dii Two open Maximum tw=10us n By electric 4~5V=OK, Possible. L Consult wi Power sup Limits the Emulates s Programm communic Profiles of rat 0.3% of rat 0.302% of 0.002% of	ply outpunitor. Ope sable analogrammin sable PS of sable PS of drain pro- low level ninimum. al Voltage OV (5000 Up to four ith Factor pplies can output po series resis- nable Outpur sation por up to 100 <b>20</b> ated outpur ted outpur rated outpur rated outpur	at monitor on collector log progra g control i vutput by y vutput by y grammab input volt Tr,Tf=tus e: 0~0.6V/. hm impect (4) identic y be connector (4) identic (4) identic y be connector (4) identic (4) identi	e. Accurace . Open co. r. CC mod amming comming comming comming alectrical : electrical : electr	y: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Opee signal or d signal or d signal or d signal or d Maximun V, Minimuu , Min dela dry contac il il isy chain t med value ange: 1~1 fall slew r l. in 4 men	6. of rated utput On: mode: Off electrical sin n collection fry contac fry contac ry contac	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V ot t. Remote: 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 2000 policitation rogrammi amming via rogrammi amming ra Activation	n Voltage ry contac On. Locala or short, 2 0~0.6V on num sink bltage = 2 1ms. nsult with turn-on a the comm ng via the ange: 0.00	e: 30V, Max t. Remote Off. Maxin ~30V or o r short. Lo current 11 2.5V, Maxin h Factory. and turn-co- nunication e commur 201~999.9 nand via t	kimum Sin : 0~0.6V o mum Voltz pen. User Jocal: 2~300 DomA (Shu mum high off. n ports or 1 nication pc 9 V/mSec. he commu	k Current: r short. Lo age: 30V, M selectable / or open. inted by 2 level input level input the front p orts or the or A/mSe	10mA. cal: 2~30V laximum S e logic. 7V zener) it = 5V pos banel. front pan c. Program ports or by	' or open. ink Curre sitive edg el. nming via	nt: 10mA e trigger the the t panel.
Power supply OK #1 signal     CV/CC signal     CV/CC signal     LOCAL/REMOTE Analog control     LOCAL/REMOTE Analog signal     ENABLE/DISABLE Signal     INTERLOCK (ILC) control     Programmed signals     TRIGGER IN / TRIGGER OUT signal     DAISY_IN/SO control signal     DAISY_OUT/PS_OK #2 signal     VONTONS AND FEATURES     I. Parallel operation     S. Daisy chain     Constant power control     S. Output resistance control     C. Slew rate control     Arbitrary waveforms     PROGRAMMING AND READBAC     R2323/485, Optional IEEE (*19)     I.Vout programming accuracy (*     S.Vout readback accuracy	ATED FROM THE OUTPUT	)         	Power sup CV/CC Mor Enable/Dis analog proc Enable/Dis Enable/Dis Enable/Dis Two open Maximum tw=10us n By electric 4~5V=OK, Possible. L Consult wi Power sup Limits the Emulates s Programm communic Profiles of 10 0.05% of rat 0.002% of 0.002% of 0.002% of	ply outpunitor. Ope sable anal ogrammin sable PS of drain pro- low level ninimum. al Voltage OV (5000 Up to four plies can output pe series resist able Output cation por up to 100 20 ated output rated rated rate	at monitor in collector log progra g control i output by o grammab input volta grammab input volta grammab input volta over to a stance. Re power to a stance. Re power to a stance. Re power to a stance. Re power to a stance and stance and sta	e. Accurace . Open co. r. CC mod amming comming comming comming alectrical : electrical : electr	y: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Opee signal or d signal or d signal or d signal or d Maximun V, Minimuu , Min dela dry contac il il isy chain t med value ange: 1~1 fall slew r l. in 4 men	6. of rated utput On: mode: Off electrical sin n collection fry contac fry contac ry contac	On. Outpu f. Maximur signal or d r. Remote: t. 0~0.6V ot t. Remote: 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 25V, Maxir 2000 policitation rogrammi amming via rogrammi amming ra Activation	n Voltage ry contac On. Locala or short, 2 0~0.6V on num sink bltage = 2 1ms. nsult with turn-on a the comm ng via the ange: 0.00	e: 30V, Max t. Remote Off. Maxin ~30V or o r short. Lo current 11 2.5V, Maxin h Factory. and turn-co- nunication e commur 201~999.9 nand via t	kimum Sin : 0~0.6V o mum Voltz pen. User Jocal: 2~300 DomA (Shu mum high off. n ports or 1 nication pc 9 V/mSec. he commu	k Current: r short. Lo age: 30V, M selectable / or open. inted by 2 level input level input the front p orts or the or A/mSe	10mA. cal: 2~30V laximum S e logic. 7V zener) it = 5V pos banel. front pan c. Program ports or by	' or open. ink Curre sitive edg el. nming via	nt: 10mA e trigger the the t panel.
1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog control     4. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE Signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT sig     9. DAISY_IN/SO control signal     10. DAISY_OUT/PS_OK #2 signal     10. Signal     11. Signal     10. Signal     1	ATED FROM THE OUTPUT		Power sup CV/CC Moi Enable/Dii analog pro Enable/Dii Enable/Dii Two open Maximum tw=10us n By electric 4~5V=OK, Possible. L Consult wi Power sup Limits the Emulates s Programm communic Profiles of rat 0.3% of rat 0.302% of 0.002% of	ply outpunitor. Ope sable anal ogrammin sable PS of drain pro- low level ninimum. al Voltage OV (5000 Up to four plies can output pe series resist able Output cation por up to 100 20 ated output rated rated rate	at monitor in collector log progra g control i output by o grammab input volta grammab input volta grammab input volta over to a stance. Re power to a stance. Re power to a stance. Re power to a stance. Re power to a stance and stance and sta	e. Accurace . Open co. r. CC mod amming comming comming comming alectrical : electrical : electr	y: +/-0.5% llector. Ou le: On. CV ontrol by e gnal. Opee signal or d signal or d signal or d signal or d Maximun V, Minimuu , Min dela dry contac il il isy chain t med value ange: 1~1 fall slew r l. in 4 men	6. of rated utput On: mode: Off electrical sin n collection fry contac fry contac ry contac	On. Outpu f. Maximur signal or d r. Remote: t. O~O.6V (t. Remote: 25V, Maxir rel input vo n 2 pulses please co onize their noming via rogrammi amming ra Activation 80	n Voltage ry contac On. Locala or short, 2 0~0.6V on num sink bltage = 2 1ms. nsult with turn-on a the comm ng via the ange: 0.00	e: 30V, Max t. Remote Off. Maxin ~30V or o r short. Lo current 11 2.5V, Maxin h Factory. and turn-co- nunication e commur 201~999.9 nand via t	kimum Sin : 0~0.6V o mum Voltz pen. User Jocal: 2~300 DomA (Shu mum high off. n ports or 1 nication pc 9 V/mSec. he commu	k Current: r short. Lo age: 30V, M selectable / or open. inted by 2 level input level input the front p orts or the or A/mSe	10mA. cal: 2~30V laximum S e logic. 7V zener) it = 5V pos banel. front pan c. Program ports or by	' or open. ink Curre sitive edg el. nming via	nt: 10mA e trigger: the the t panel.

### GENESYS<sup>™</sup> GSP10kW/15kW SERIES SPECIFICATIONS

1.Foldback protection 2.Over-voltage protection (OVP) 3.Over-voltage programming range 4. Over-voltage programming accuracy 5.Output under voltage limit (UVL) 6.Over temperature protection 7. Output under voltage limit (UVL) 8. Output under voltage protection (UVP) FRONT PANEL 1.Control functions	 V   	User prese Output sh 0.5~12 +/-1% of ra Prevents f Shuts dow Prevents a Prevents a	etable. Re ut-down 1~24 ated outp rom adju rom adju n the ou adjustmen	set by AC Reset by 2~36 ut voltag sting Vou tput. Auto nt of Vout	AC input AC input 2~44.1 e t below lin precovery	y changes ycle in auto recycle in a 5~55.125 mit. Does n	ostart mo utostart i 5~66.15	de, by Po mode, by	wer Switc	h, by OUT button, b	PUT butt	on, by rear el or by co	panel or b mmunicat	y commur	le. ication.
3.Over -voltage programming range 4. Over-voltage programming accuracy 5. Output under voltage limit (UVL) 6. Over temperature protection 7. Output under voltage limit (UVL) 8. Output under voltage protection (UVP) FRONT PANEL	  	0.5~12 +/-1% of ra Prevents f Shuts dow Prevents a Prevents a	1~24 ated outp rom adju /n the ou adjustmen adjustmen	2~36 ut voltag sting Vou tput. Auto nt of Vout	2~44.1 e t below lin p recovery	5~55.125 mit. Does n	5~66.15							ion.	
4. Over-voltage programming accuracy     5. Output under voltage limit (UVL)     6. Over temperature protection     7. Output under voltage limit (UVL)     8. Output under voltage protection (UVP)     FRONT PANEL		+/-1% of ra Prevents f Shuts dow Prevents a Prevents a	ated outp rom adju /n the ou adjustmei adjustmei	ut voltag sting Vou tput. Auto nt of Vout	e t below lii o recovery	mit. Does n		5~88.2	LF 110 3						
5.Output under voltage limit (UVL) 6.Over temperature protection 7. Output under voltage limit (UVL) 8. Output under voltage protection (UVP) FRONT PANEL		Prevents f Shuts dow Prevents a Prevents a	rom adju /n the ou idjustmei idjustmei	sting Vou tput. Auto nt of Vout	t below lii o recovery				5~110.2	5 5~165.3	7 5~220.	5 5~330.7	5 5~441	5~551.25	5~661.5
6.Over temperature protection 7. Output under voltage limit (UVL) 8. Output under voltage protection (UVP) FRONT PANEL		Shuts dow Prevents a Prevents a	<u>in the ou</u> idjustmei idjustmei	tput. Auto nt of Vout	recovery										
7. Output under voltage limit (UVL) 8. Output under voltage protection (UVP) FRONT PANEL		Prevents a Prevents a	idjustmei idjustmei	nt of Vout		hy autors:		n analog	program	ming. Pre	set by fro	nt panel or	communi	cation por	ι
8. Output under voltage protection (UVP) FRONT PANEL		Prevents a	djustme		below lin		art mode.								
FRONT PANEL		Prevents a mode, by	idjustmei Power Sw	at of Vout		nit.									
				ritch, by C	below lin OUTPUT bi	nit. P.S outp utton, by re	out turns ( ar panel )	Off durir or by cor	g under v nmunicati	oltage coi on.	ndition. R	eset by AC	input recy	cle in auto	start
		Multiple o	ptions w	th 2 Enco	ders										
		Vout/lout													
		OVP/UVL/													
		Protection	n Functio	ns - OVP, L	JVL,UVP, F	oldback, C	CL, ENA,	ILC							
		Communi	cation Fu	nctions -	Selection	of LAN, IEE	E,RS232,R	S485,US	B or Optio	nal comm	unicatior	interface.			
		Output Of	N/OFF. Fro	ont Panel	Lock.										
						of Baud Ra									
						/oltage/res				, 5K/10K p	orogramm	ing			
						of Voltage/			ig 5V/10V.						
2.Display						d output vo									
						output curr									
3.Front Panel Buttons Indications		OUTPUT C	DN, ALARI	M, PREVIE	W, FINE, C	COMMUNIC	ATION, PI	ROTECTI	ON,CONFI	GURATIO	N, SYSTEN	I, SEQUEN	CER.		
4. Front Panel Display Indications		Voltage, C (communi	urrent, Pe ication), F	ower, CV, S/USB/LA	CC, CP, Ex AN/IEEE co	ternal Volta ommunicat	age, Exter ion, Trigg	nal Curre er, Load,	ent, Addre Store Cell	ss, LFP, Au	itostart, S	afetstart, F	oldback V	/l, Remote	
ENVIRONMENTAL CONDITIONS															
1.Operating temperature		0~50°C, 10	2006 load												
			J0 % 10au												
2.Storage temperature		-30~85°C			,										
3.Operating humidity	%	20~90% R													
4.Storage humidity	%	10~95% R	· ·												
5.Altitude (*17)		Operating	: 10000ft	(3000m),	output cu	irrent dera	ing 2%/10	00m or T	a derating	1°C/100m	n above 20	00m. Non	operating	: 40000ft (	2000m).
MECHANICAL															
1.Cooling		Forced air	coolina l	ov interna	l fans. Air	flow direct	ion: from	Front pa	nel to pov	ver suppl	v rear				
2.Weight GSP 104	W kg	Less than		,							, 				
3.Dimensions (WxHxD) GSP 104						rs and busb s and busb			n relief) (Re	fer to Out	line drawi	ng).			
2.Weight GSP 15k	W kg	Less than	23.5ka.		, , , , , , , , , , , , , , , , , , ,							2			
				: 441 5 (M	/ithout bu	usbars and	busbars c	over)							
3.Dimensions (WxHxD) GSP 15k	W mm					isbars and l			strain reli	ef) (Refer	to Outline	drawing).			
4.Vibration						test condit									
5.Shock		Less than	20G, half	sine, 11m	Sec. Unit i	is unpacked	d.								
SAFETY/EMC		111 61010 1	66422		10.1.15.01	(1010 1 FN									
1.Applicable standards: Safety						61010-1, EN									
1.1. Interface classification						4, J5, J6, J7, . ense) are h								on Hazardo	ous.
1.2 Withstand voltage		Input - Gr 60V≤Vout Output & 0utput & 100V <vou Output &amp;</vou 	ound: 28 t≤100V M J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens	35VDC lodels: Ir e) - J1, J e) - Grou Models: e) - J1, J e) - Grou	1min. 1put – Ou 2, J3, J4, 1nd: 1500 Input – O 2, J3, J4, 1nd: 2500	J8 (sense J5, J6, J7 VDC 1min J5, J6, J7 VDC 1min J5, J6, J7 VDC 1min	(sense), ( & J9 (co , Input - ( (sense), & J9 (co	J1, J2, J mmunic Ground: J1, J2, c	3, J4, J5, ation opti 2835VD0 I3, J4, J5	J6, J7 & ons): 850 2 1min. J6, J7 ai	J9 (comn )VDC 1m nd J9 (co	nunicatior in. mmunicat	options):	4242VD0	C 1min,
1.3 Insulation resistance		GSP10kW/	15kW: 60	Mohm at	25°C, 709	%RH. Outp	ut to Gro	und 500	VDC						
2.Conducted emmision					· · ·	t, Annex H				1-A					
3.Radiated emission						t, Annex H					Δ.				
4. EMC compliance EMC(*1		IEC/EN612					aure 11.3	anu ⊓4,	I CC Part I	J'A, VCCI	n.				

Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

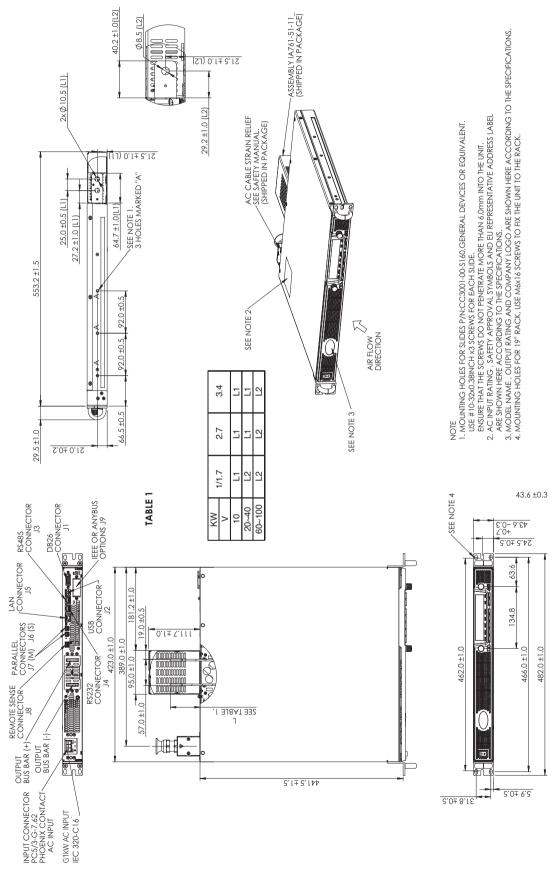
"NOTES:

\*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.

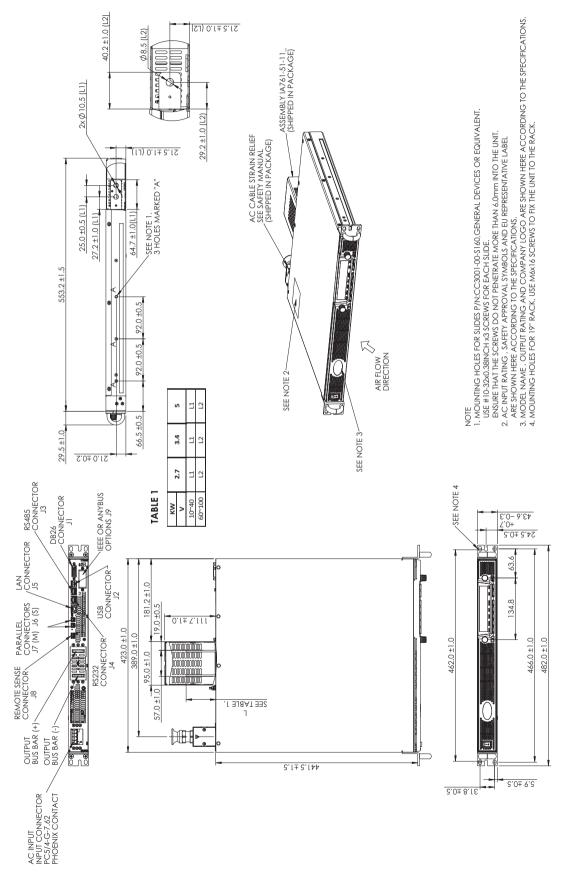
\*NOTES:
\*1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
\*2: Minimum current is guaranteed to maximum 0.2% of rated output current.
\*3: GSP 104W: Derate 104/17C above 40°C.
GSP 184W: Derate 154W: Derate 154W: Derate 154/17C above 40°C.
\*4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
\*5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
\*6: Not including EMI filter inrush current, less than 0.2mSec.
\*7: 3-Phase 200V models: 170-265Vac, 3-Phase 400W models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.
\*8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
\*9: For 10V-150V models: Measured with JETA RC-9131C (1:1) probe. For 200-600V models: Measured with 100:1 probe.
\*10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
\*11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
\*12: Form 90% to 10% of Rated Output Voltage, with rated, resistive load.
\*13: For load voltage change, equal to the unit voltage rating, constant input voltage.
\*14: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.
\*15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
\*16: Kasaured at the rensing point.
\*17: For 10V model Ta derating 2°C/100m.\*
\*18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.
\*19: Max. ambient temperature for using IEEE is 40°C.
\*20: GSP15KW For 10V model only: Max. ou

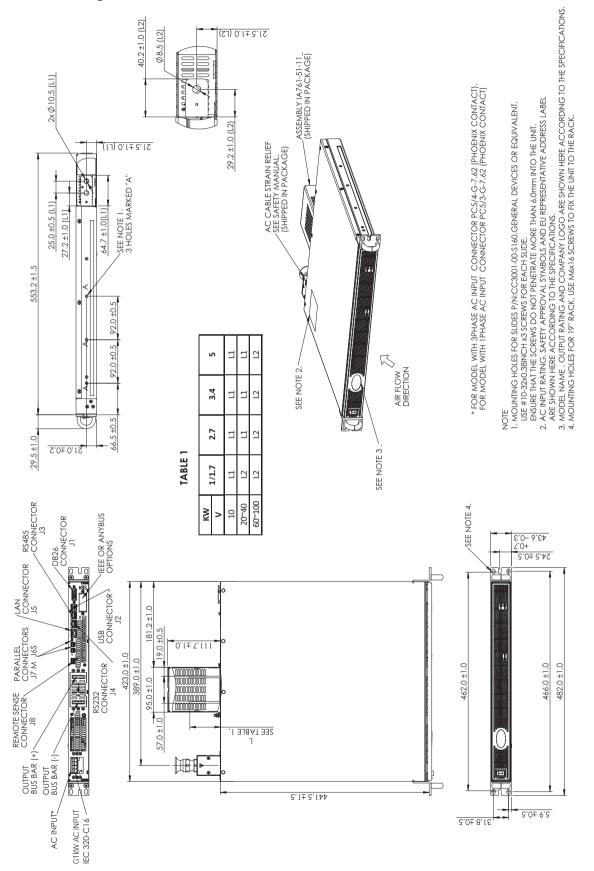
\*22: Typ. at Ta=25°C, rated output power. \*23: For steady state only.





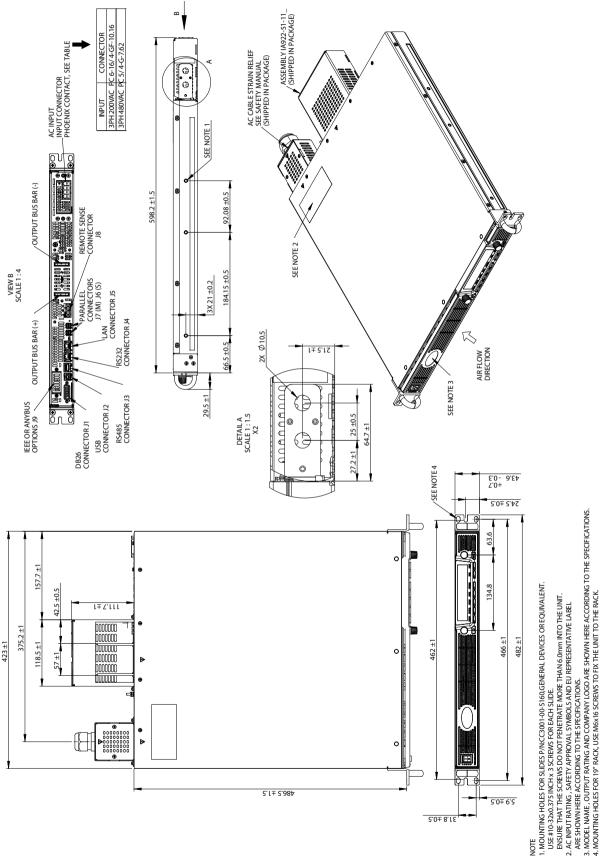
## Outline Drawing GENESYS<sup>™</sup> G2.7kW/G3.4kW/G5kW - 3-Phase





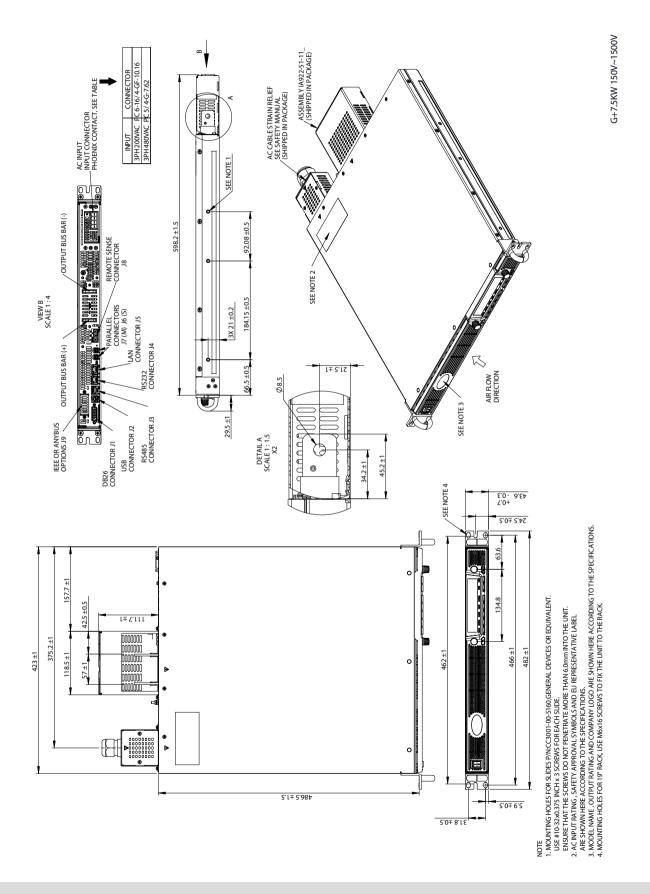
## Outline Drawing GENESYS<sup>™</sup> GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version

## Outline Drawing GENESYS<sup>™</sup> G7.5kW - LV (20V-100V) 3-Phase

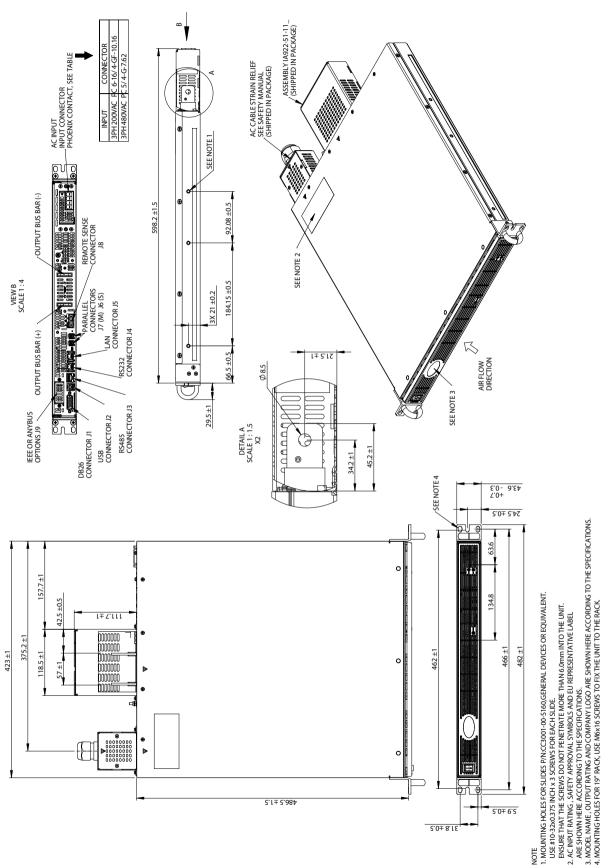


G+7.5KW 20V~100V

## Outline Drawing GENESYS<sup>™</sup> G7.5kW - HV (150V-1500V) 3-Phase

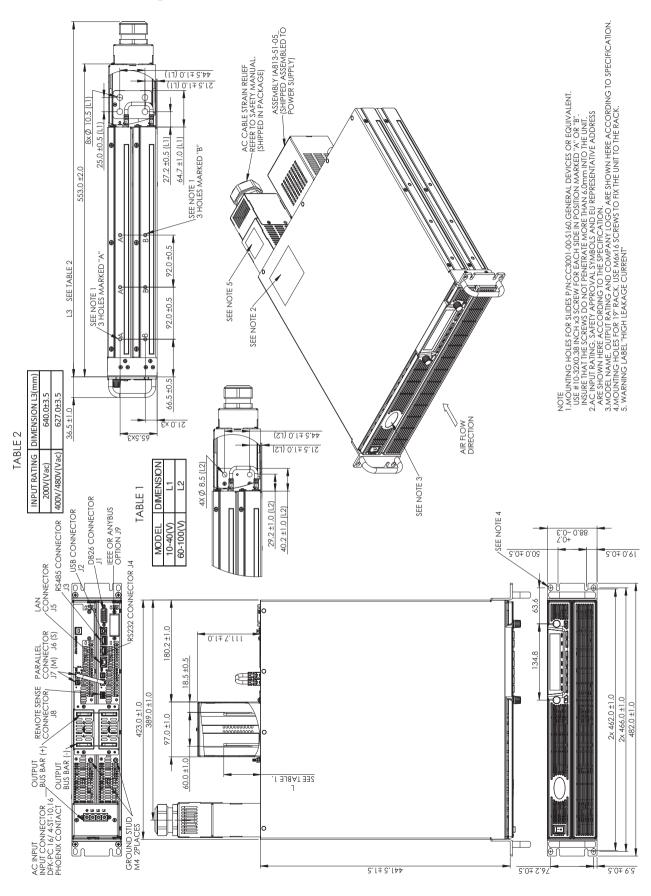


## Outline Drawing GENESYS<sup>™</sup> GB7.5kW ATE Version

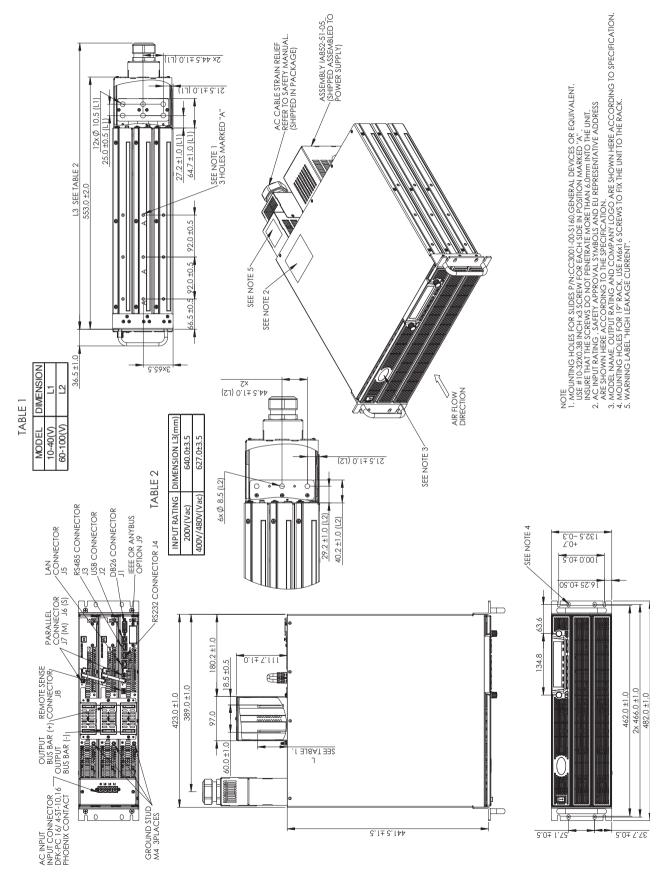


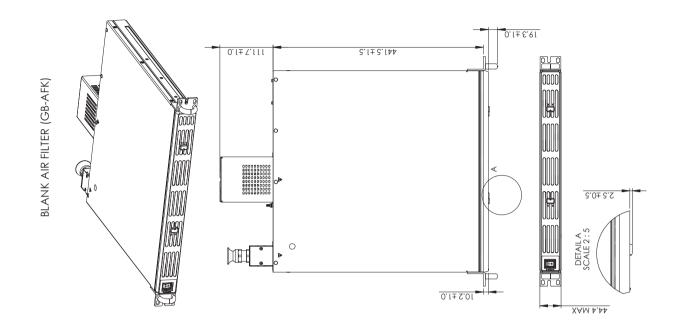
G+7.5KW BLANK 150V~1500V

## Outline Drawing GENESYS<sup>™</sup> GSP10kW

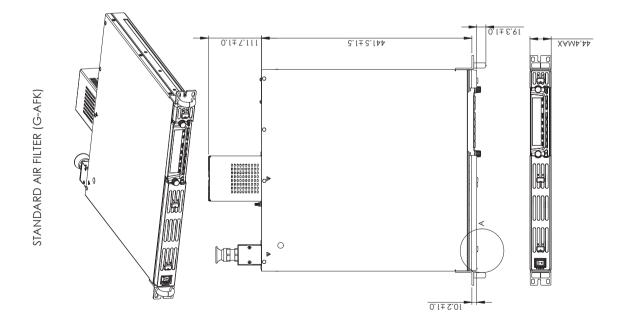


## Outline Drawing GENESYS<sup>™</sup> GSP15kW





## Outline Drawing GENESYS<sup>™</sup> Air Filter Kit



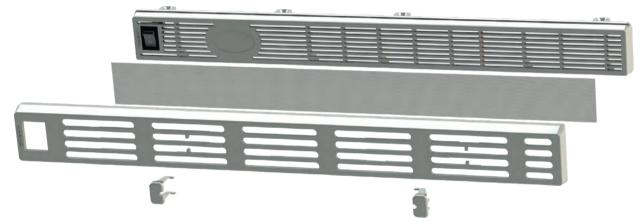
## Front Panel Air Filter Assembly

Front panel dust cover is available for dusty air environment applications Dust cover is removable snap-in filter (for easy maintenance)

• Part Number (for standard unit) : G-AFK



• Part Number (for unit with blank front panel) : GB-AFK



For GSP 10kW/15kW series order part number: GSP10kW-AFK / GSP15kW-AFK

### **Accessories**

#### 1. Front Panel dust filter / Field installation kit:

### Technical Specifications: Unit with Air Filter Assembly Installed

- Derating (environmental):
  Operating Temperature
- For all models (except 10V): 0°C to +40°C full load; For 10V model: 0°C to +30°C, derate 5A/°C for 30°C < Ta < +40°C</li>
- Altitude
- For all models (except 10V): derate 2°C/100m or 2% of load/100m (above 2000m)
- For 10V model: derate 1°C/100m or 2% of load/100m (above 2000m)

### Filter Foam Technical Specifications

- Material: reticulated polyurethane foam
- Thickness:3.8 mm
- Porosity: 45ppi
- Operating Temperature Range: 0°C to +60°C
- Storage Temperature Range: -40°C to +85°C
- Humidity: 95% RH

### Air Filter Assembly Components

- Standard Unit (P/N: G-AFK)
- Air Filter Cover (two pieces)
   Slide Button #1 (two locations: near AC ON/OEE switch and near
- Slide Button #1 (two locations: near AC ON/OFF switch and near left-hand side of front panel display)
   Slide Button #2 (one location: right-hand side of front panel display)
- Filter foam (two pieces)

#### Blank Front Panel Unit (P/N: GB-AFK)

- Air Filter Cover (one piece)
- · Slide Button #1 (two locations) · Filter foam (one piece)