



**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/Iout)

• 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



TDK-Lambda

Tructod - Innovativo - Poliablo







The GENESYS™ 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 (L)XI 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™/CVI, LabVIEW™, 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**

**G**ENESYS<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**



- Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- USB Interface connector (Type B).
- 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).
- 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. Plug connector: PHOENIX CONTACT - GIC 2,5 HCV/ 3-ST-7,62 - 1745632
- Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- 8. 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**



- 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**



- 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).
- 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.
- 8. 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.



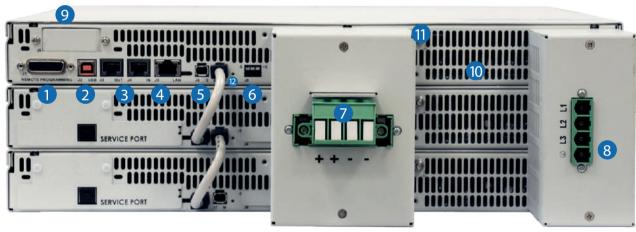


## **GSP15kW Front Panel Description**



- 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**



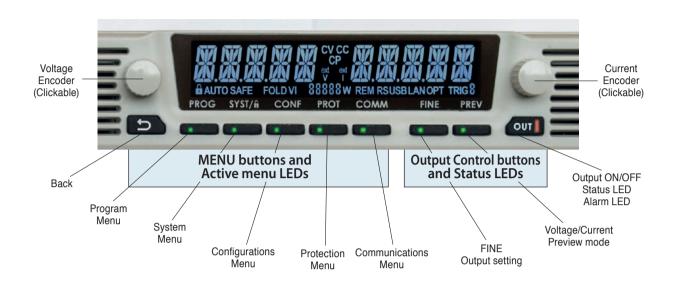
- Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection 3.
- LAN (L) 1.5) Interface connector (RJ-45 type with LAN status indicators).
- Auto paralleling 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).
- 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).
- 8. 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.



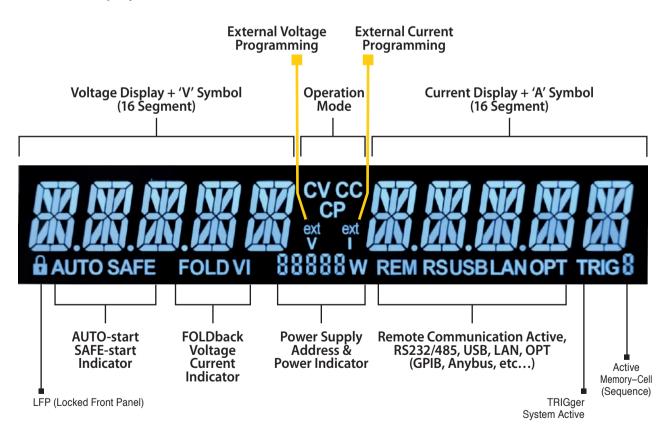




## **Front Panel Display MENU/CONTROL buttons:**



## **Front Panel Display indicators**





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.

## **G**ENESYS<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

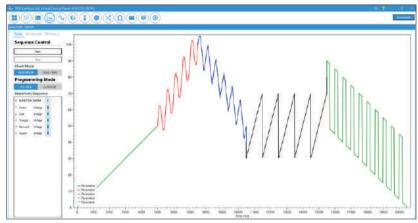


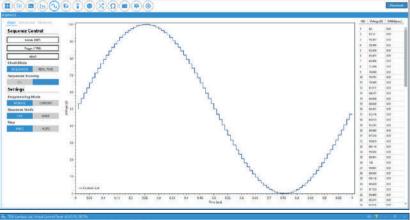
#### **Graphical User Interface**

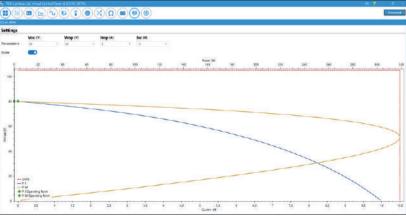
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. Automatically detect power supplies connected to a PC and/or local network.
- 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. Solar array simulation based on VOC, VMP, IMP, ISC.
- 6. 6. Advanced functions control Slew-Rate, Internal Resistance and Constant Power.
- 7. Multi-Model Monitoring and Control Panel.
- 8. 8. Individual and Global commands control.

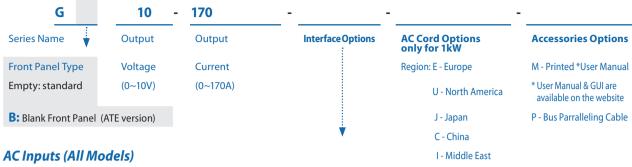
### **GUI Waveform Profile Generator**







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



1Ø, 85 ~ 265Vac

### **Interface Options (Factory installed)** LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in

USB 2.0 compliant with Multi-Drop capability - built-in RS-232/RS-485 - built-in

Isolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in

IEEE (488.2 & SCPI compliant with Multi-Drop capability installed) Modbus-TCP

**EtherCAT** Isolated Analog Current Program/Monitor Interface

(4mA-20mA with 600V isolation)

**IEEE** 

## P/N

**MDBS ECAT** IS420

#### **Models 1kW**

Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	0~100	1000
G20-50	0~20V	0~50	1000
G30-34	0~30V	0~34	1020
G40-25	0~40V	0~25	1000
G60-17	0~60V	0~17	1020

Model	Voltage (V)	Current (A)	Power (W)
G80-12.5	0~80V	0~12.5	1000
G100-10	0~100V	0~10	1000
G150-7	0~150V	0~7	1050
G300-3.5	0~300V	0~3.5	1050
G600-1.7	0~600V	0~1.7	1020

#### Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)
G10-170	0~10V	0~170	1700
G20-85	0~20V	0~85	1700
G30-56	0~30V	0~56	1680
G40-42	0~40V	0~42	1680
G60-28	0~60V	0~28	1680

Model	Voltage (V)	Current (A)	Power (W)
G80-21	0~80V	0~21	1680
G100-17	0~100V	0~17	1700
G150-11.2	0~150V	0~11.2	1680
G300-5.6	0~300V	0~5.6	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 **GENESYS™** 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 User Manual	G/M

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

**Interface Options** 

P/N

**IEEE** 

**MDBS** 

**ECAT** 

IS420

G 10 - 340

Series Name : Output Output

Front Panel Type Voltage Current

Empty: standard (0~10V) (0~340A)

**B:** Blank Front Panel (ATE version)

**Interface Options (Factory installed)** 

LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in USB 2.0 compliant with Multi-Drop capability - built-in RS-232/RS-485 - built-in

Isolated Analog Program/Monitor Interface (5V/10V Pgm/Mon with 600V isolation) - built-in IEEE (488.2 & SCPI compliant with Multi-Drop capability installed) Modbus-TCP EtherCAT

Isolated Analog Current Program/Monitor Interface (4mA-20mA with 600V isolation)

**AC Input Options** 

1P208 (Single Phase 170~265VAC) 3P208 (Three Phase 170~265VAC) 3P400 (Three Phase 342~460VAC)

3P480 (Three Phase 342~528VAC)

**Accessories Options** 

M - Printed \*User Manual
\* User Manual & GUI are
available on the website

P - Bus Parralleling Cable

#### Models G2.7kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-265	0~10V	0~265	2650
G20-135	0~20V	0~135	2700
G30-90	0~30V	0~90	2700
G40-68	0~40V	0~68	2720
G60-45	0~60V	0~45	2700

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G80-34	0~80V	0~34	2720
G100-27	0~100V	0~27	2700
G150-18	0~150V	0~18	2700
G300-9	0~300V	0~9	2700
G600-4.5	0~600V	0~4.5	2700

### **Models G3.4kW**

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-340	0~10V	0~340	3400
G20-170	0~20V	0~170	3400
G30-112	0~30V	0~112	3360
G40-85	0~40V	0~85	3400
G60-56	0~60V	0~56	3360

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G80-42	0~80V	0~42	3360
G100-34	0~100V	0~34	3400
G150-22.5	0~150V	0~22.5	3375
G300-11.5	0~300V	0~11.5	3450
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 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

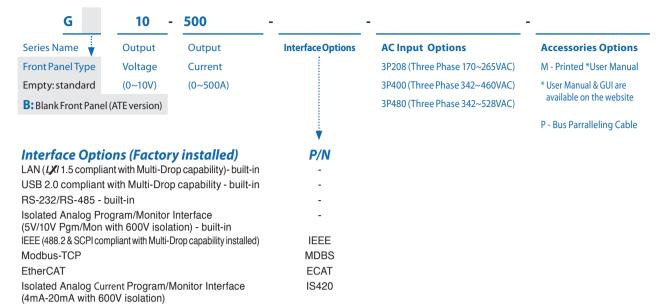
Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

#### 4. User Manual

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



#### Models 5kW

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

Model	voitage (VDC)	Current (A)	rowei (w)
G100-50	0~100V	0~50	5000
G150-34	0~150V	0~34	5100
G200-25	0~200V	0~25	5000
G300-17	0~300V	0~17	5100
G400-13	0~400V	0~13	5200
G500-10	0~500V	0~10	5000
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 User Manual	G/M

#### 5. Parallel Kit: 20kW/30kW

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

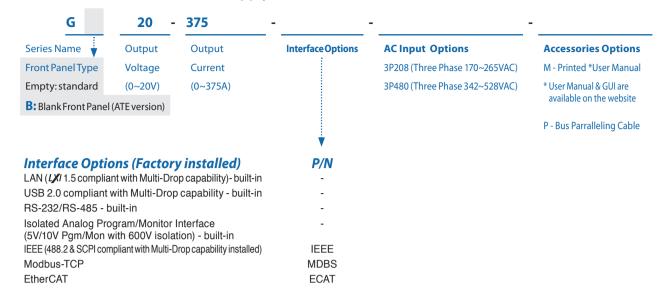
G/P-6U: BusBar Parallel Kit for 30 kW operation (5kW Models where Vout up to 100V)







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



#### Models 7.5kW

Model	Voltage (VDC)	Current (A)	Power (W)
G20-375	0~20V	0~375	7500
G40-188	0~40V	0~188	7520
G100-75	0~100V	0~75	7500
G150-50	0~150V	0~50	7500
G600-12.5	0~600V	0~12.5	7500
G1500-5	0~1500V	0~5	7500

Model	Voltage (VDC)	Current (A)	Power (W)
G30-250 0~30V		0~250	7500
G60-125	0~60V	0~125	7500
G80-94	0~80V	0~94	7500
G200-37.5	0~200V	0~37.5	7500
G300-25	0~300V	0~25	7500
G1000-7.5	0~1000V	0~7.5	7500

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**ENESYS<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

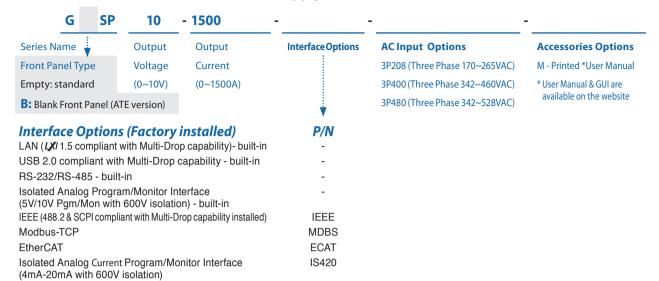
### 4. User Manual

Printed User Manual	G/M

#### 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



#### **Models GSP 10kW**

Model	Voltage (VDC)	Current (A)	Power (kW)	
GSP10-1000	0~10V	0~1000	10	
GSP20-500	0~20V	0~500	10	
GSP30-340	0~30V	0~340	10.2	
GSP40-250	0~40V	0~250	10	
GSP50-200	0~50V	0~200	10	
GSP60-170	0~60V	0~170	10.2	
GSP80-130	0~80V	0~130	10.4	

Model	Voltage (VDC)	Current (A)	Power (kW)
GSP100-100	0~100V	0~100	10
GSP150-68	0~150V	0~68	10.2
GSP200-50	0~200V	0~50	10
GSP300-34	0~300V	0~34	10.2
GSP400-26	0~400V	0~26	10.4
GSP500-20	0~500V	0~20	10
GSP600-17	0~600V	0~17	10.2

#### Models GSP 15kW

Model	Voltage (VDC)	Current (A)	Power (kW)	
GSP10-1500	0~10V	0~1500	15	
GSP20-750	0~20V	0~750	15	
GSP30-510	0~30V	0~510	15.3	
GSP40-375	0~40V	0~375	15	
GSP50-300	0~50V	0~300	15	
GSP60-255	0~60V	0~255	15.3	
GSP80-195	0~80V	0~195	15.6	

Model	Voltage (VDC)	Current (A)	Power (kW)	
GSP100-150	0~100V	0~150	15	
GSP150-102	0~150V	0~102	15.3	
GSP200-75	0~200V	0~75	15	
GSP300-51	0~300V	0~51	15.3	
GSP400-39	0~400V	0~39	15.6	
GSP500-30	0~500V	0~30	15	
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







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

Models Series	G (Std Front Panel Display) GB (Blank Front Panel Display)					GSP/GBSP (Scalable Power)		
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	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

**AC Input Range** 

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



#### **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

M	od	e	S	1.	5	kI	N

Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500
GH20-75	0~20V	0~75	1500
GH30-50	0~30V	0~50	1500
GH40-38	0~40V	0~38	1520
GH60-25	0~60V	0~25	1500

Model	Voltage (V)	Current (A)	Power (W)
GH80-12.5	0~80V	0~12.5	1000
GH100-10	0~100V	0~10	1000
GH150-7	0~150V	0~7	1050
GH300-3.5	0~300V	0~3.5	1050
GH600-1.7	0~600V	0~1.7	1020

Model	Voltage (V)	Current (A)	Power (W)
GH80-19	0~80V	0~19	1520
GH100-15	0~100V	0~15	1500
GH150-10	0~150V	0~10	1500
GH300-5	0~300V	0~5	1500
GH600-2.6	0~600V	0~2.6	1560

## **G**ENESYS™ 1kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	Α	100	50	34	25	17	12.5	10	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	300	000
	_		Jillilluous, 47	~osnz, siligie	riiase						
2. Maximum Input current at 100% load (100/200)	A	12.5/6.5									
3.Power Factor (Typ)			c 0.98 @ 200\			07/00	07/00	00/00	00/00	00/00	00/00
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 50A	1								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output volta	ide					1		
				-							
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	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-up	).				
6.Temperature stability		0.01% of rate	d Vout over 8h	rs interval fol	lowing 30 min	utes warm-ui	o. Constant lin	e. load & temr	n.		
7. Warm-up drift					-2mV over 30 n						
·	_	1							-	-	-
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
					n 0.5% of its ra						
11.Transient response time	mS				models up to						
12.Start up delay	Sec	Less than 6 Se									
13.Hold-up time	mS	1			204	ns typical rat	ed output pov	ver			
Issues apaine	11113				201	cy pical, idi	.ca oatput p01				
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.02% of rate	d output curre	ent. +2mA							
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
5.htppie i.iii.s. @ rateu voitage. b.w 5H2~liviHz. (*15)	IIIA								≤10	_ ≤0	≤3
5.Temperature coefficient	PPM/°C				out current, fol						
		150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 min	utes warm-up				
6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-uբ	. Constant line	e, load & temp	oerature.		
		10V~100V mc	del: Less than	+/-0.25% of r	ated output cu	urrent over 30	minutes follo	wing power o	n.		
7. Warm-up drift					output current					-1	
		11504 0004.2		1570 01 14104 0	output current	OVET 50 IIIIII	tes following	JOWEI OII.			
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	/out.			
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					ectable. Accura						
	1					-	-				
4.lout resistor programming (*14)					ectable. Accura	-	ity: +/-0.5% 01	rated lout.			
5.Output voltage monitor					: +/-0.5% of ra						
6.Output current monitor (*14)		0~5V or 0~10	V, user selecta	ble. Accuracy	: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)										
	· -	In I		. 0 "	. 0	2 0 0 .	. 0(( 0(( )4		201/14 :	C: 1 C	
1. Power supply OK #1 signal					ector. Output (	on: On. Outpi			e: 30v, Maxim		
2. CV/CC signal		CV/CC Monito	r. Open colle	ctor. C.C. mode	0 61/ 1						nt: 10mA.
3. LOCAL/REMOTE Analog control					: On. CV mode					0mA.	
4. LOCAL/REMOTE Analog signal		Enable/Disab			: On. CV mode ntrol by electri					0mA.	
in to the friend it mining signal			le analog pro	gramming co		cal signal or c	lry contact. Re	mote: 0~0.6V	or short. Loca	0mA. Il: 2~30V or op	en.
		analog progra	ole analog prod amming contro	gramming co ol monitor sig	ntrol by electri nal. Open colle	cal signal or c ctor. Remote:	lry contact. Re On. Local: Off.	mote: 0~0.6V Maximum Vo	or short. Loca Itage: 30V, Ma:	0mA. ıl: 2~30V or op ximum Sink Cu	en.
5. ENABLE/DISABLE signal		analog progra Enable/Disab	ole analog prod amming contro ole PS output b	gramming cor ol monitor sig oy electrical si	ntrol by electri nal. Open colle gnal or dry cor	cal signal or c ctor. Remote: ntact. 0~0.6V	lry contact. Re On. Local: Off. or short, 2~30	mote: 0~0.6V Maximum Vo V or open. Use	or short. Loca Itage: 30V, Ma er selectable lo	0mA. ıl: 2~30V or op ximum Sink Cu	en.
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		analog progra Enable/Disab Enable/Disab	ole analog prod amming contro ole PS output b ole PS output b	gramming co ol monitor sig oy electrical si oy electrical si	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor	cal signal or c ctor. Remote: ntact. 0~0.6V ntact. Remote	Iry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or sho	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3	or short. Loca Itage: 30V, Ma er selectable lo 30V or open.	0mA. ıl: 2~30V or op ximum Sink Cu ogic.	en.
5. ENABLE/DISABLE signal		analog progra Enable/Disab Enable/Disab Two open dra	ole analog prod amming contro ole PS output b ole PS output b ain programm	gramming cor ol monitor sign by electrical sign by electrical signals. N	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Aaximum volta	cal signal or c ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi	Iry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or sho mum sink curr	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S	or short. Loca Itage: 30V, Mai er selectable lo IOV or open. hunted by 27\	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		analog progra Enable/Disab Enable/Disab Two open dra Maximum lo	ole analog prod amming contro ole PS output b ole PS output b ain programm ow level inpu	gramming cor of monitor sign by electrical sign by electrical signals. Manual able signals. Manual of voltage = 0	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Maximum volta D.8V,Minimun	cal signal or conctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level	Iry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		analog progra Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge	ole analog prod amming controlle PS output be ole PS output be ain programme ow level inpu rr: tw=10us m	gramming cor of monitor sign by electrical sign by electrical signals. M able signals. M It voltage = 0 ininmum. Tr,T	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Maximum volta 0.8V,Minimun f=1us Maxim	cal signal or conctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level	Iry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal		analog progra Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge By electrical \	ole analog prod amming control ole PS output be ole PS output be ain programmow level inpu rr: tw=10us m Voltage: 0~0.6	gramming cor of monitor sig by electrical si by electrical si able signals. A It voltage = 0 inimum. Tr,T V/2~30V or dr	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Maximum volta 0.8V,Minimun f=1us Maxim	cal signal or conctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level	Iry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		analog progra Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge By electrical \	ole analog prod amming controlle PS output be ole PS output be ain programme ow level inpu rr: tw=10us m	gramming cor of monitor sig by electrical si by electrical si able signals. A It voltage = 0 inimum. Tr,T V/2~30V or dr	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Maximum volta 0.8V,Minimun f=1us Maxim	cal signal or conctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level	Iry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
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		analog progra Enable/Disab Enable/Disab Two open dra Maximum lo edge trigge By electrical \	ole analog prod amming control ole PS output be ole PS output be ain programmow level inpu rr: tw=10us m Voltage: 0~0.6	gramming cor of monitor sig by electrical si by electrical si able signals. A It voltage = 0 inimum. Tr,T V/2~30V or dr	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Maximum volta 0.8V,Minimun f=1us Maxim	cal signal or conctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level	Iry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
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		analog progra Enable/Disab Enable/Disab Two open dra Maximum Ic edge trigge By electrical \u20e4 4~5V=OK, 0V	ole analog proj amming contro ole PS output b ole PS output b ain programm ow level inpu r: tw=10us m Voltage: 0~0.6	gramming corol monitor signor of monitor signor of grand signor of the corol of the	ntrol by electri nal. Open colle gnal or dry cor gnal or dry cor Maximum volta D.8V,Minimun f=1us Maxim y contact.	cal signal or c cctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level lum, Min del	Iry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or shi mum sink curr input voltagi ay between	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (SI = = 2.5V, Max 2 pulses 1ms	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
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		analog progra Enable/Disab Enable/Disab Two open dra Maximum Ic edge trigge By electrical \ 4~5V=OK, 0V	ole analog projection of the project	gramming corol monitor signor	ntrol by electrinal. Open colle gnal or dry cor gnal or dry cor Maximum volta D.8V, Minimun f=1us Maxim y contact.	cal signal or c ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level num, Min del	Iry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or shi mum sink curr input voltagi ay between	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (SI = = 2.5V, Max 2 pulses 1ms	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
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 2. Series operation		analog progra Enable/Disab Enable/Disab Two open dra Maximum Ic edge trigge By electrical \ 4~5V=OK, 0V  Possible. Up to Possible. Two	ole analog proj amming contro ole PS output be ain programm. ow level inpu or: tw=10us m Voltage: 0~0.6 ( (5000hm imp	gramming corol monitor sign by electrical since the signals. A subject of the signals with	ntrol by electrinal. Open colle gnal or dry cor gnal or dry cor daximum volta D.8V, Minimum f=1us Maxim ry contact.	cal signal or c ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level num, Min del	Iry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or shi mum sink curr input voltagi ay between	mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (Si e = 2.5V, Max 2 pulses 1ms	or short. Loca Itage: 30V, Ma: er selectable lo 60V or open. hunted by 27V kimum high l	OmA. ıl: 2~30V or op ximum Sink Cu ogic. / zener)	en. rrent: 10mA.
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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 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming resolution 4.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy		analog progra Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum Ic edge trigge! By electrical \( 4~5V=OK, OV \)  Possible. Up t Possible. Two Power supplie Limits the out Emulates seri Programmab communicati Profiles of up  10 0.05% of rateu 0.002% of rateu 0.002% of rateu 0.005% of rateu	ole analog prodamming controlle PS output Edle Output rise can be controlled output curred output curred output volted output volted output volted output volted output volted output volted output curred output volted output curred output volted output curred output volted output curred output volted output	gramming coil of monitor signy electrical signy electrica	ntrol by electrinal. Open collegnal or dry corgnal or dry corgnal or dry corgnal or dry cordnaximum volta.  2.8V, Minimum (f=1 us Maxim ry contact.  2.5lave mode. Fruction manu ry chain to synched value. Progrege: 1~1000m all slew rate. Profin 4 memory college.	cal signal or c ctor. Remote: ntact. 0~0.6V ntact. Remote ge 25V, Maxi n high level num, Min del um, Min del gramming via Ω. Programm rogramming vi ells. Activatio	Iry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or short mum sink curr input voltag ay between  ction manual.  turn-on and t the communi ing via the cor ange: 0.0001~	mote: 0~0.6V Maximum Vo V or open. Use V or open. U	or short. Loca Itage: 30V, Ma: er selectable le 60V or open. hunted by 27V kimum high l 5.  or the front pai ports or the fr ec. or A/mSec. munication po	OmA.  II: 2~30V or op kimum Sink Cupgic.  I/ zener) evel input =  nel. ont panel. Programming orts or by the fr	en. rrent: 10mA.  5V positive  via the ont panel.  600
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## **G**ENESYS<sup>™</sup> 1.7kW SERIES SPECIFICATIONS

2   2   2   2   2   2   7   7   1   2   5   5   2   2   7   7   1   2   5   5   2   2   1   7   2   5   5   5   5   4   2   2   7   7   1   2   5   5   5   5   5   6   1   2   5   5   5   6   1   2   5   5   5   5   6   1   2   5   5   5   5   5   5   6   1   2   5   5   5   5   5   5   5   5   5	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
State disease present   W   1700   1909   1909   1909   1909   1900   1900   100	1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
Mary Content   Mary	2.Rated output current (*2)	Α	170	85	56	42	28	21	17	11.2	5.6	2.8
	3.Rated output power	W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680
	INDIT CHAPACTERISTICS	V	10	20	20	40	60	90	100	150	200	600
2.846mmon paper turners at 100% celebration (100%)   200%   200							00	00	100	150	300	000
3   3   2   2   2   2   3   3   3   4   6   8   9   9   2   3   3   4   6   8   9   9   2   3   3   4   6   8   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   9   3   3   6   6   9   3   3   3   6   6   9   3   3   3   3   3   3   3   3   3				ontinuous, 47	03112,3111gic	i nusc						
Efficiency and tall Vasc/2004s, rands output 1"98				c 0.09 @ 200	Vac rated out	nut nower						
Shouth carrier (**)   A							87/89	87/89	88/90	88/90	88/90	88/90
The content of the					0,703	07705	07/07	0.703	00,70	00/70	00/70	00,70
Table   Time regulation   PG												
2.8A.S. Load regulation (**?) 4.8ppe end notine (**) p. 2.0Med (**) 8 8.7						40	60	80	100	150	300	600
Supple case	-	_			-							
Applied norm   Steff Med 12   Steff Power   Comment and professional   Steff	2.Max. Load regulation (*7)		0.01% of rate	d output volta	ige +2mV							
Semperature coefficient	3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
Contemporary in tability	4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	8	20	100
2	5.Temperature coefficient	PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-u	p.				
Batemote series compensation vive **PID***   V   2   2   5   5   5   5   5   5   5   5	6.Temperature stability		0.01% of rate	d Vout over 8h	nrs interval fol	lowing 30 min	utes warm-u	p. Constant lin	e, load & temp	Э.		
Supplementary   Final   Fina	7. Warm-up drift		Less than 0.0	1% of rated ou	ıtput voltage+	-2mV over 30 r	ninutes follov	wing power on				
Suppress   Properties   Properties   Full   Ideal of 172   Imp   5	8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
Company   Comp	·	mS										100
	Full load (*12)											
Time for response time	10 Down-prog response time:							_				
10-1009, Local series (Less than 1mS, for models up to and including 100V, 2mS, for models above 100V. 2mS for fatel dout. 2mS for	· ·											
12.58 trut pidelay    12.58 trut pidelay    13.58 trut pidelay   15.58	11.Transient response time	mS									arrent. outpu	c sec-point:
CONSTANT CURRENT MODE	12.Start up delay	Sec			.5,.01		. ====					
CONSTANT CURRENT MODE			5 50			16	ms typical rat	ted output nov	ver			
Max. Load regulation (**)												
2   2   2   2   2   3   3   3   2   3   1   3   3   3   3   2   3   1   3   3   3   3   3   3   3   3						40	60	80	100	150	300	600
Stemperature coefficient												
Siemperature coefficient  PPMC Sign-Goody OpPMC from rated output current, following 30 minutes warm-up. Sign-Goody OpPMC from rated output current, following 30 minutes warm-up. ODTs of rated but over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.  10V-100V model care doubted under a constant line, load & temperature.  10V-100V model care that output current over 30 minutes following power on.  15VV-600V Less than +/-0.15% of rated output current over 30 minutes following power on.  15VV-600V Less than +/-0.15% of rated output current over 30 minutes following power on.  15VV-600V Less shan +/-0.15% of rated output current over 30 minutes following power on.  15VV-600V Less shan +/-0.15% of rated output current over 30 minutes following power on.  15VV-600V Less shan +/-0.15% of rated output current over 30 minutes following power on.  15VV-600V Less shan +/-0.15% of rated output current over 30 minutes following power on.  15VV-600V Less sheetable. Accuracy and linearity; +/-0.15% of rated fout.  15VV-600V Less sheetable. Accuracy and linearity; +/-0.15% of rated fout.  15VV-600V Less sheetable. Accuracy and linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy and Linearity; +/-0.5% of rated fout.  15VV-600V Less sheetable. Accuracy a	3 1		0.02% of rate	d output curre	ent. +5mA							
Stemperature coefficient   PPM/C   100%-600V 20PPM/C from rated output current, following 30 minutes varim-up.	3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
SIGN-600V 70PPM/r from rated output current, following 30 minutes warm-up.	F.T. (6: )	DD14/06	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mi	nutes warm-u	0.		•	
2. Warm-up drift	5.Temperature coefficient	PPIM/°C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 min	utes warm-up				
1.   1.   1.   1.   1.   1.   1.   1.	6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-u	p. Constant line	e, load & temp	perature.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE CUTPUT)  1. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.  2. Jour voltage programming (*14) 2. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.4% of rated Vout.  3. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.4% of rated Vout.  4. Jour tesistor programming (*14) 3. Output voltage monitor 4. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.  4. Jour tesistor programming (*14) 4. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.  5. Output voltage monitor 4. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Jour.  5. Output voltage monitor 5. Output voltage monitor 6. On-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Jour.  5. Output voltage monitor 6. On-100% of rated Jour. 6. On-100% of rated Jour. 6. On-100% of rated Jour. 6. Output Cliffo Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.  2. CVCC Signal 7. On-100% of signal 5. Output Districts of Journal of Programming Control of Signal 6. Output Off. On Output Off. Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.  3. LOCAL REMOTE Analog signal 6. Output Districts of Journal off. One Collector. Output Off. On Output Off. One Collector. Output Off. One												
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)  1. Nout voltage programming	7. Warm-up drift											
Notivo trage programming												
D-100%, 0-50 for 0-10V, user selectable. Accuracy and linearity: +0.4% of frated lout.		т —										
3-000%, 0-5-10Kohm full scale, user selectable. Accuracy and linearity: +/0.5% of rated Vout.												
Alout resistor programming (*14)	2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	0.4% of rated Io	out.			
SOutput voltage monitor	3.Vout resistor programming		0~100%, 0~5	/10Kohm full s	scale, user sele	ectable. Accur	acy and linear	rity: +/-0.5% of	rated Vout.			
Signals And Contracts (ISOLATED FROM THE OUTPUT)	4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full s	scale, user sele	ectable. Accura	acy and linear	rity: +/-0.5% of	rated lout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)  1. Power supply OK #1 signal	5.Output voltage monitor		0~5V or 0~10	V, user selecta	able. Accuracy	: +/-0.5% of ra	ted Vout					
1. Power supply OK #1 signal	6.Output current monitor (*14)		0~5V or 0~10	V, user selecta	able. Accuracy	: +/-0.5 of rate	d lout.%.					
1. Power supply OK #1 signal	SIGNALS AND CONTROLS (ISOLATED FROM THE OLITRIA	Τ\										
2. CV/CC Signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. LOCAL/REMOTE Analog control Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10m S. ENABLE/DISABLE signal Enable/Disable P5 output by electrical signal or dry contact. 0-0.6V or short. 2-30V or open. User selectable logic. 6. INTERLOCK (ILC) control Enable/Disable P5 output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 7. Programmed signals Two open drain programmable signals. Maximum sink current: 10mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals Who open drain programmable signals. Maximum sink current: 10mA (Shunted by 27V zener) 8. DAISY_IN/SO control signal By electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 7. Enable/Disable P5 output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 8. TRIGGER IN / TRIGGER OUT signals Trigger signals Trigger signal Trigger signal Trigger signal Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive deget trigger: twill obtain signal signals and signals and signals Trigger signal Trigger signal Trigger signal A sign		ri e	Dawar suppli	, autnut mani	tar Onan call	actor Output	On On Outn	ut Off. Off Max	imum Valtaa	o. 201/ Mayimu	um Cimb Curro	nt. 10m A
3.LOCAL/REMOTE Analog control		_										III. IUIIIA.
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 signals 9. DAISY IN/SO control signal 10. DAISY OVER 50 Kg sign		_										rrent: 10mA.
7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)  Maximum low level input voltage = 0.5W, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr,T=1 us Maximum, Min delay between 2 pulses 1ms.  9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6W/2~30V or dry contact.  10. DAISY_OUT/PS_O k*2 signal 4~5V=OK, 0V (S00ohm impedance)=Fail  FUNCTIONS AND FEATURES  1. Parallel operation Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual.  2. Series operation Possible. Two identical units. Refer to instruction manual.  3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.  4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel.  5. Output resistance control Emulates series resistance. Resistance range: 1-1000mD, Programming via the communication ports or the front panel.  6. Slew rate control Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel.  7. Arbitrary waveforms	-	_									ogic.	
Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive deget trigger: tw=10us minimum. Tr, Tf=1us Maximum, Min delay between 2 pulses 1ms.		-				, ,						
edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.  9. DAISY_IN/SO control signal	7. Programmed signals						· .					
9. DAISY_IN/SO control signal	8. TRIGGER IN / TRIGGER OUT signals										evel input =	5V positive
To DAISY_OUT/PS_OK #2 signal							ium, win de	iay between.	z puises ims			
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 7. Output resistance control 7. Arbitrary waveforms 8. Output resistance control 9. Programmale Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms 7. Arbitrary waveforms 7. Output resistance control 7. Arbitrary waveforms 8. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 8. Programming accuracy (*15) 9. Output resistance control output rise and Output fall slew rate. Programming via the communication ports or by the front panel. 9. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Output programming accuracy (*15) 9. Output resistance control output voltage 9. Llout programming resolution 9. Output resistance range: 1~100mΩ Programming range: 0.000m Program		-				y contact.						
1. Parallel operation Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual. 2. Series operation Possible. Two identical units. Refer to instruction manual. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) V 10 20 30 40 60 80 100 150 300 600 1.Vout programming accuracy (*15) 0.05% of rated output voltage 2. Lout programming resolution 0.002% of rated output current+0.2% of rated output current 3. Vout programming resolution 0.002% of rated output current 4. Lout programming resolution 0.002% of rated output voltage 4. Lout readback accuracy (*14) 0.2% of rated output current 5. Vout readback accuracy (*14) 0.05% of rated output current 7. Vout readback resolution (of rated output voltage) 0.05% of rated output current 7. Vout readback resolution (of rated output voltage) 0.003% of rated output current	IU. DAISY_UU I/PS_UK #2 SIGNAI		4~5V=UK, 0V	(SUUONM IMP	pedance)=Fail							
2. Series operation	FUNCTIONS AND FEATURES											
2. Series operation	1. Parallel operation		Possible. Up 1	to 4 identical ι	units in Master	/Slave mode.	Refer to instru	uction manual.				
3. Daisy chain	·											
4. Constant power control  5. Output resistance control  6. Slew rate control  7. Arbitrary waveforms	·	-						r turn-on and t	urn-off.			
5. Output resistance control  6. Slew rate control  7. Arbitrary waveforms  Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.  PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)  1. V 10 20 30 40 60 80 100 150 300 600  1. Vout programming accuracy (*15)  2. lout programming accuracy (*14)  3. Vout programming resolution  3. Vout programming resolution  5. Vout readback accuracy  4. O.002% of rated output voltage  6. lout readback accuracy  6. lout readback accuracy (*14)  7. Vout readback resolution (of rated output voltage)  8. O.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%	-	_								or the front nar	nel.	
6. Slew rate control  7. Arbitrary waveforms	·	_										
Communication ports or the front panel.   Communication ports or the front panel.						-				•		via the
Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.	6. Slew rate control					an siew idle. P	ogramming !	range. 0.0001~	222.27 V/III30	.c. or A/11138C.1	. rogramming	via tile
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)	7. Arbitrary waveforms					in 4 memory c	ells. Activatio	n by command	d via the comr	nunication po	rts or by the fr	ront panel.
RS232/485, Optional IEEE (*18) Interfaces)   V   10   20   30   40   60   80   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   100   130   300   800   800   100   130   800								,			, , , ,	
1.Vout programming accuracy (*15)		V	10	20	30	40	60	80	100	150	300	600
2.1out programming accuracy (*14)			0.05% of rate	d output volts	age							
3.Vout programming resolution       0.002% of rated output voltage         4.lout programming resolution       0.002% of rated output current         5.Vout readback accuracy       0.05% of rated output voltage         6.lout readback accuracy (*14)       0.2% of rated output current         7.Vout readback resolution (of rated output voltage)       % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%						ted output co	rent					
4.Iout programming resolution       0.02% of rated output current         5.Vout readback accuracy       0.05% of rated output voltage         6.Iout readback accuracy (*14)       0.2% of rated output current         7.Vout readback resolution (of rated output voltage)       0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%						ieu output Cul	relit					
5.Vout readback accuracy        0.05% of rated output voltage         6.lout readback accuracy (*14)        0.2% of rated output current         7.Vout readback resolution (of rated output voltage)       %       0.011%       0.006%       0.004%       0.003%       0.002%       0.011%       0.007%       0.002%		_										
6.lout readback accuracy (*14) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%		-										
7.Vout readback resolution (of rated output voltage)	·				-							
	·	_										
8.lout readback resolution (of rated output current)	I / Vout readback resolution (of rated output voltage)	1 %	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%





### GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut- User presetal	down when pole. Reset by A	oower supply o AC input recyc	hanges mode le in autostart	from CV or Po mode, by Po	ower Limit to wer Switch, by	CC mode or fro y OUTPUT butt	om CC or Pow on, by rear pa	er Limit to CV r nel or by com	mode. munication.
2.Over-voltage protection (OVP)			Output shut-	down. Reset l	oy AC input re	ycle in autost	art mode, by	OUTPUT butt	on, by rear par	nel or by comr	nunication.	
3.Over -voltage programming ran		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 acc				d output volt								
5.Output under voltage limit (UVL	_)							programming	g. Preset by fro	nt panel or co	mmunication	port.
6.Over temperature protection					ito recovery b		ode.					
7. Output under voltage limit (UVL	L)		Prevents adju	ustment of Vo	ut below limit							
8. Output under voltage protection	on (UVP)		Prevents adjumode, by Pov	ustment of Vo wer Switch, by	ut below limit OUTPUT but	. P.S output tu on, by rear pa	rns Off during nel or by com	under voltag munication.	ge condition. R	eset by AC inp	out recycle in a	utostart
FRONT PANEL												
1.Control functions			Multiple opti	ons with 2 En	coders							
				wer Limit ma								
			OVP/UVL/UV									
			Protection Fu	inctions - OVI	P. UVL,UVP, Fol	dback, OCL, E	NA, ILC					-
			Communicat	ion Functions	- Selection of	LANJEFF.RS2	32.RS485.USB	or Optional	communication	n interface.		
			Output ON/O			, , , , , , , , , , , ,	, , , , , , , , , , , , , , , , ,					
					- Selection of	Baud Rate. Ac	ldress, IP and	communicati	ion language.			
									/10K programn	nina		
					- Selection of							
2.Display					05% of rated o							
					% of rated out							-
3.Front Panel Buttons Indications								N.CONFIGUR	ATION, SYSTEM	A. SEOUENCER	R.	
4. Front Panel Display Indications			Voltage, Curr	ent, Power, C		nal Voltage, E	xternal Curre	nt, Address, L	FP, Autostart, S			ote
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 100%	6 load								
· · · · ·			-30~85°C	o ioau.								
2.Storage temperature											-	-
3.Operating humidity		%	20~90% RH (ı								-	-
4.Storage humidity		%		no condensat								
5.Altitude			Operating: 10	0000ft (3000n	n), output curr	ent derating 2	%/100m or Ta	derating 1°C/	/100m above 2	000m. Non op	erating: 40000	Oft (12000m).
MECHANICAL												
1.Cooling			Forced air cod	oling by inter	nal fans. Air flo	w direction: f	rom Front par	nel to power s	supply rear			
2.Weight		kg	Less than 5kg	1.					,			
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 441.5	(Without but but but but but but but but but b				Outline draw	ing).		
4.Vibration			MIL-810G, me	ethod 514.6. P	rocedure I, tes	t condition Ar	nnex C - 2.1.3.	1				
5.Shock					mSec. Unit is u							
			12033 triuri 200	a,uii siiie, 11		packeu.						
SAFETY/EMC												
1.Applicable standards:	Safety G1kW/G1.7kW		UL61010-1, CS	SA22.2 No.610	010-1, IEC6101	)-1, EN61010-1						
1.1. Interface classification	G1kW/1.7kW								options) are No & J9 (communic		) are Non Haza	ardous.
1.2 Withstand voltage	G1kW/1.7kW		Input - Groui 60V≤Vout≤1 Output & J8 Output & J8 100V <vout≤ Output &amp; J8 Output &amp; J8 Input - Groui</vout≤ 	nd: 2835VD0 00V Models: (sense) - J1, (sense) - Gr 600V Models (sense) - J1, (sense) - Gr nd: 2835VD0	C 1min. Input – Outp J2, J3, J4, J! ound: 1500VI s: Input – Out J2, J3, J4, J! ound: 2500VI C 1min.	ut & J8 (sens 5, J6, J7 & J9 C 1min, Inpu put & J8 (sen: 5, J6, J7 & J9 CC 1min.	e), J1, J2, J3 (communica it - Ground: 2 se), J1, J2, J3	, J4, J5, J6, ation options 2835VDC 1m 3, J4, J5, J6,	9 (communica J7 & J9 (comr ): 850VDC 1m in. J7 and J9 (co ): 1275VDC 1	munication op in. mmunication	otions): 4242\	/DC 1min,
1.3 Insulation resistance			100Mohm at	25°C, 70%RH	. Output to Gr	ound 500VDC						
2.Conducted emmision			IEC/EN61204-	-3 Industrial e	nvironment, A	nnex H table	H.1 , FCC Part	15-A, VCCI-A				
3.Radiated emission					nvironment, A							
4. EMC compliance	EMC (*4)				-3 Industrial e							
T. LIVIC COMPHIANCE	LIVIC ( 4)		Inccording to	ILC/LINUIZU4	-5 muustiidi ei	iviioiiiileiit					-	

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

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

  \*\*I: 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: 8S-7132Vac 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 10V-150V models: Measured with JEITA RC-913IC (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, with rated, resistive load.

  \*\*12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.

  \*\*12: From 90% to 10% of Rated Output Voltage, with rated, resistive load.

  \*\*13: 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. Bw 5Hz~1MHz.

  \*\*14: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

  \*\*15: Measured at the sensing point.

  \*\*16: Max. ambient temperature for using IEEE is 40°C.

  \*\*17: Ta=25°C, rated output power.







## **GENESYS™ 2.7kW SERIES SPECIFICATIONS**

OUTDUT DATING		_	10.265	20.125	20.00	40.60	CO 45	00.24	100.07	150.10	200.0	600.45
OUTPUT RATING  1.Rated output voltage(*1)		G V	10-265 10	20-135	30-90 30	40-68 40	60-45	80-34 80	100-27 100	150-18 150	300-9 300	600-4.5
2.Rated output current (*2)		A	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
		V						80				
INPUT CHARACTERISTICS		V	10 2 Phase 200	20 V models: 170	30 ~265Vac, 47~	40	60	80	100	150	300	600
					~265 vac, 47~ 2~460Vac, 47~			/ac)				
1.Input voltage/freq. 3 phase, 3 w	rire + Ground (*4)				~528Vac, 47~				ac)			
					~265Vac, 47~							
	3-Phase, 200V models:		10A @ 200Va									
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va									
100% load	3-Phase, 480V models:		5.5A @ 380Va									-
	1-Phase, 200V models:		16.5A @ 200V		30Vac, rated o	itnut nower						
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)		Α	Less than 50/	A								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volt								
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)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro									
6.Temperature stability									ne, load & tem	ıp.		
7. Warm-up drift				T	utput voltage	1			1			
8.Remote sense compensation/w	rire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	F	mS c	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11) No load (*12)	mS mS	50 450	50 600	80 800	80 900	80 1100	100 1300	100 2100	100 2000	100 3200	200 3100
	No load (*12)	ms										
11.Transient response time		mS	10~100%, Lo	out voitage to cal sense. Les	recover withi s than 1mS, fo	r models up to	ated output fo and includin	g 100V. 2mS. i	ge 10~90% of for models ab	rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 Se		,10							
					20	40		00	100	150	200	500
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)			0.05% of rate 0.08% of rate									
3.Ripple r.m.s. @ rated voltage. 3-	Phace (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-		mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
	Thuse ( 14)	PPM/°C			rom rated out					210	312	
5.Temperature coefficient					om rated outp							
6.Temperature stability									ne, load & tem	•		
7. Warm-up drift			10V~100V mo	odel: Less thai	n +/-() 25% of							
/. **aiiii-up uiiit			150\/~600\/·1							on.		
					.15% of rated					on.		
ANALOG PROGRAMMING AND M	MONITORING (ISOLATED	FROM	THE OUTPUT)	ess than +/-0	.15% of rated	output curren	t over 30 mini	utes following	power on.	on.		
ANALOG PROGRAMMING AND M 1.Vout voltage programming		FROM 1	THE OUTPUT) 0~100%, 0~5	ess than +/-0	.15% of rated ser selectable	output curren	t over 30 mini	utes following	power on.	on.		
ANALOG PROGRAMMING AND N  1. Vout voltage programming  2. lout voltage programming (*15		FROM 1	0~100%, 0~5	ess than +/-0 V or 0~10V, us V or 0~10V, us	.15% of rated ser selectable ser selectable	Accuracy and	t over 30 min I linearity: +/- I linearity: +/-	utes following 0.15% of rated 0.4% of rated	power on.  I Vout.  lout.	on.		
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming	5)	P FROM 1	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 V/10Kohm full	ser selectable ser selectable scale, user sel	. Accuracy and . Accuracy and . Accuracy and ectable. Accur	t over 30 minn I linearity: +/- I linearity: +/- racy and linea	0.15% of rated 0.4% of rated rity: +/-0.5% of	l Vout. lout. of rated Vout.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	5)	FROM 1	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	Less than +/-0 V or 0~10V, us V or 0~10V, us V/10Kohm full V/10Kohm full	ser selectable ser selectable scale, user sel scale, user sel	Accuracy and Accuracy and Accuracy and ectable. Accur	t over 30 minn I linearity: +/- I linearity: +/- racy and linea	0.15% of rated 0.4% of rated rity: +/-0.5% of	l Vout. lout. of rated Vout.	on.		
ANALOG PROGRAMMING AND A 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	  	THE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us V/10Kohm full V/10Kohm full V/, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	t over 30 minn I linearity: +/- I linearity: +/- racy and linea	0.15% of rated 0.4% of rated rity: +/-0.5% of	l Vout. lout. of rated Vout.	on.		
ANALOG PROGRAMMING AND N 1.Vout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	)	   	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us V/10Kohm full V/10Kohm full V/, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy	Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	t over 30 minn I linearity: +/- I linearity: +/- racy and linea	0.15% of rated 0.4% of rated rity: +/-0.5% of	l Vout. lout. of rated Vout.	on.		
ANALOG PROGRAMMING AND A  1.Vout voltage programming  2.lout voltage programming  3.Vout resistor programming  4.lout resistor programming  5.Output voltage monitor  6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA	)	D FROM 1 T)	THE OUTPUT) 0~100%, 0~5 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 IV or 0~10V, u: IV or 0~10V, u: I/10Kohm full I/10Kohm full IV, user select IV, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac able. Accurac	Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Accuracy and Accuracy: +/-0.5%.	I linearity: +/-I Il linearity: +/-I I racy and linea racy and linea	0.15% of rated 0.4% of rated rity: +/-0.5% of rity: +/-0.5% o	l Vout. lout. of rated Vout.		oum Sink Curr	rent: 10må
ANALOG PROGRAMMING AND A 1.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 (ISOLA 1. Power supply OK #1 signal	)	   	THE 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, u: .V or 0~10V, u: ./10Kohm full ./10Kohm full .V, user select .V, user select .V output mon	ser selectable ser selectable ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll	Accuracy and Accuracy 4:4/-0.5%.	I linearity: +/-I I linearity: +/-I I linearity: +/-I racy and linea racy and linea On: On. Outp	0.15% of rated 0.4% of rated rity: +/-0.5% or rity: +/-0.5% o	I yout. I yout. Iout. of rated yout. of rated lout.	ge: 30V, Maxin		ent: 10mA.
ANALOG PROGRAMMING AND A  1.Vout voltage programming  2.lout voltage programming  3.Vout resistor programming  4.lout resistor programming  5.Output voltage monitor  6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPU	      T)	THE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  Power supply  CV/CC Monito	Less than +/-0  IV or 0~10V, us  IV or 0~10V, us  IV 10V ohm full  IV 10V ohm full  IV 10V ohm full  IV user select  IV user select  IV user select  IV output mon  or. Open colle	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll	Accuracy and Accur	I linearity: +/- I linearity: +/- I linearity: +/- racy and linea racy and linea On: On. Outp	0.15% of rated 0.4% of rated rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Ma um Voltage: 30	I Vout. I Vout. Iout. of rated Vout. of rated lout. aximum Volta	ge: 30V, Maxin Sink Current: <sup>1</sup>	10mA.	
ANALOG PROGRAMMING AND IN JOURN VOITAGE PROGRAMMING AND IN JOUR VOITAGE PROGRAMMING AND IN JOUR VOITAGE PROGRAMMING AND IN JOUR VOITAGE PROGRAMMING (*15 S. OUTPUT VOITAGE MONITOR (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPU	D FROM 1	THE OUTPUT) 0~100%, 0~5 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 CV/CC Monite	V or 0~10V, us V or 0~10V, us V or 0~10V, us V/10Kohm full V/10Kohm full VV, user select VV, user select V output mon or. Open colle	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy itor. Open coll sector. CC mode	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accurectable. Accurectabl	I linearity: +/-i I linearity: +/-i I linearity: +/-i racy and linearacy	0.15% of rated 0.4% of rated rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3i dry contact. R	I yout. Iout. If rated Vout. If rated Iout. If rated Iout. In rate	ge: 30V, Maxin	10mA. :al: 2~30V or o	pen.
ANALOG PROGRAMMING AND M  1.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 (ISOL/  1. Power supply OK #1 signal  2. CV/CC signal  3. LOCAL/REMOTE Analog contro	ATED FROM THE OUTPU	D FROM 1 T)	THE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~1C  Power supply CV/CC Monite Enable/Disat analog progra	V or 0~10V, us V or 0~10V, us V or 0~10V, us V/10Kohm full V/10Kohm full V/, user select V/, user select v/ output mon or. Open colle ble analog pro amming contr	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co ol monitor sig	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accuracy ectable. Accuracy: +/-0.5%.  Sector. Output e: On. CV modintrol by electional. Open collegions.	I linearity: +/-i I linearity: +/-i I linearity: +/-i acy and linea	0.15% of rated 0.4% of rated rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 31 dry contact. R On. Local: Off	l Vout. lout. frated Vout. of rated lout. aximum Volta ov, Maximum emote: 0~0.6' . Maximum Vo	ge: 30V, Maxin Sink Current: V or short. Loc	10mA. al: 2~30V or o ximum Sink Cu	pen.
ANALOG PROGRAMMING AND IN.  ANALOG PROGRAMMING AND IN.  AND INVOLVE VOLTAGE PROGRAMMING AND IN.  AND INVOLVE VOLTAGE PROGRAMMING (*15)  BOULD INVOLVE VOLTAGE MANALOG AND INVOLVE VOLTAGE  BOULD INVOLVE VOLTAGE VOLTAGE  AND CONTROLS (ISOLA  I. Power supply OK #1 signal  C. CV/CC signal  B. LOCAL/REMOTE Analog contro  L. LOCAL/REMOTE Analog signal  B. ENABLE/DISABLE signal  INTERLOCK (ILC) control	ATED FROM THE OUTPU	D FROM 1	THE 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 CV/CC Monite Enable/Disab analog progr. Enable/Disab Enable/Disab Enable/Disab	ess than +/-0  V or 0~10V, us  V output mon  or, Open colled  lea nalog pro  amming contr  ble PS output  ble PS output  ble PS output	ser selectable ser selectable scale, user sel able. Accuracy able. Accuracy able. Accuracy able. Open coll sector. CC mode ogramming co ool monitor sig by electrical s	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accur by: +/-0.5%.  Hector. Output by: ector. Output by: -/-0.5%.  Hector. Output by: -/-0.5%.  Hector. Output by: -/-0.5%.  Hector. Output by: -/-0.5%.  Hector. Output by: -/-0.5%.	I linearity: +/-I linearity: +/-I linearity: +/-I linearity: -/-I linearity: -/-I linearity: -/-I linearity: -/I linearity: -/	utes following  0.15% of rated 0.4% of rated rity: +/-0.5% of rity: +/-0.5% of  ut Off: Off. Mi um Voltage: 31 dry contact. R  On. Local: Off or short, 2-3 e: 0~0.6V or sl	I Vout. Iout. Iout. of rated Vout. of rated lout. aximum Volta ov, Maximum emote: 0~0.6 Maximum Volto ov or open. Us nort. Local: 2~	ge: 30V, Maxin Sink Current: ' V or short. Loc Itage: 30V, May ser selectable 30V or open.	10mA. :al: 2~30V or o ximum Sink Cu logic.	pen.
ANALOG PROGRAMMING AND A  1.Vout voltage programming 1.Vout voltage programming 4.lout resistor programming 4.lout resistor programming 6.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 contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPU	D FROM 1 T)	THE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  Power supply CV/CC Monite Enable/Disatanalog progra Enable/Disatanalo	Less than +/-0V, using the second of the sec	ser selectable ser selectable ser selectable scale, user sel able. Accuracy able.	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accur ectable. Ec	Il linearity: +/- Il linearity: +/- Il linearity: +/- acy and linea	utes following  0.15% of rated 0.4% of rated rity: +/-0.5% c rity: +/-0.5% c rity: +/-0.5% c order  order	I yout.  Iout.  Jordan Volta	ge: 30V, Maxin Sink Current: ' V or short. Loc Itage: 30V, Max er selectable 30V or open. Shunted by 27	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. Irrent: 10mA.
ANALOG PROGRAMMING AND IN.  ANALOG PROGRAMMING AND IN.  AND INVOLVE VOLTAGE PROGRAMMING AND IN.  AND INVOLVE VOLTAGE PROGRAMMING (*15)  BOULD INVOLVE VOLTAGE MANALOG AND INVOLVE VOLTAGE  BOULD INVOLVE VOLTAGE VOLTAGE  AND CONTROLS (ISOLA  I. Power supply OK #1 signal  C. CV/CC signal  B. LOCAL/REMOTE Analog contro  L. LOCAL/REMOTE Analog signal  B. ENABLE/DISABLE signal  INTERLOCK (ILC) control	ATED FROM THE OUTPU	D FROM 1 T)	THE OUTPUT) 0~100%, 0~5 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 CV/CC Monite Enable/Disata analog progra Enable/Disate Enable/Disate Two open dra Maximum Id	Less than +/-0  V or 0-10V, u: V or	ser selectable ser selectable ser selectable scale, user sel able. Accuracy able. Accuracy able. Accuracy actor. CC mode orgamming cool monitor sig by electrical s by electrical s able signals.	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accur ectable. Accur ey: +/-0.5%.  Selector. Output ector. Output ector. Output elector. Output e	t over 30 mini Il linearity: +/- Il linearity: +/- acy and linea acy and linea acy and linea acy and linea corp. On: On. Outpee: Off. Maximurical signal or cetor. Remote: intact. 0~0.6V intact. Remote acy 25V, Max m high   Neva	utes following  0.15% of ratec 0.4% of rated rity: +/-0.5% of rity: +/-0.5% of  ut Off: Off. M.  ut Off: Off. M.  dry contact. R. On. Local: Off or short, 2-3 e: O-0.6V or sl imum sink cu input voltac uninches	I Vout. Iout. of rated Vout. of rated lout. frated lout. ov, Maximum emote: 0~0.6 Maximum Vo ov or open. Us ovor. Local: 2~ rrent 100mA (3) ge = 2.5V, Max	ge: 30V, Maxin Sink Current: V or short. Loc Itage: 30V, Mas ser selectable 30V or open. Shunted by 27 Iximum high	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen.
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ANALOG PROGRAMMING AND IN IVOUT VOITAGE PROGRAMMING AND IVOUT VOITAGE PROGRAMMING AN	ATED FROM THE OUTPU	D FROM 1	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enab	Less than +/-0V, u.v. Vor 0~10V, u.v. Vor 0~10V, u.v. Vor 0~10V, u.v. V/10Kohm full I//10Kohm fu	ser selectable ser selectable ser selectable ser selectable scale, user sel able. Accuracy able.	Accuracy and Accur	t over 30 mini Il linearity: +/- Il linearity: +/- acy and linea acy and linea acy and linea acy and linea corp. On: On. Outpee: Off. Maximurical signal or cetor. Remote: intact. 0~0.6V intact. Remote acy 25V, Max m high   Neva	utes following  0.15% of ratec 0.4% of rated rity: +/-0.5% of rity: +/-0.5% of  ut Off: Off. M.  ut Off: Off. M.  dry contact. R. On. Local: Off or short, 2-3 e: O-0.6V or sl imum sink cu input voltac uninches	I Vout. Iout. of rated Vout. of rated lout. frated lout. ov, Maximum emote: 0~0.6 Maximum Vo ov or open. Us ovor. Local: 2~ rrent 100mA (3) ge = 2.5V, Max	ge: 30V, Maxin Sink Current: V or short. Loc Itage: 30V, Mas ser selectable 30V or open. Shunted by 27 Iximum high	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. Irrent: 10mA.
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ANALOG PROGRAMMING AND N  ANALOG PROGRAMMING AND N  1.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 (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 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	ATED FROM THE OUTPU		THE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  Power supply  CV/CC Monitr  Enable/Disat  Enable	Less than +/-0  IV or 0-10V, us. IV or 0	ser selectable ser selectable scale, user sel able. Accuracy able.	Accuracy and Accuracy and Accuracy and Accuracy and Ectable. Accur ectable. Accur ey: +/-0.5%. ector. Output ec: On. CV modentrol by electinal. Open colleginal or dry company and accuracy	t over 30 mini Il linearity: +/- Il linearity: +/- acy and linea acy and linea acy and linea acy and linea con: On. Outp e: Off. Maxim rical signal or ector. Remote: ntact. 0-0.6V mtact. 0-0.6V mtact. 0-0.8V m high level num, Min de	utes following  0.15% of rated 0.4% of rated rity: +/-0.5% of rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Mi um Voltage: 3i dry contact. R On. Local: Off or short, 2-3 e: 0-0.6V or sl imum sink cu input volta lay between	I yout.  I vout.  Iout.  Jorrated Vout.  Jorrated lout.	ge: 30V, Maxin Sink Current: V or short. Loc Itage: 30V, Mas ser selectable 30V or open. Shunted by 27 Iximum high	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. Irrent: 10mA.
ANALOG PROGRAMMING AND M  ANALOG PROGRAMMING AND M  1.Vout voltage programming 2.Lout voltage programming (*15 3.Vout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. C.V/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 sigr 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal  FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	ATED FROM THE OUTPU		THE OUTPUT)  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~100%, 0~5  0~5V or 0~10  CV/CC Monitic  Enable/Disab analog progra Enable/Disab E	Less than +/-0  V or 0~10V, u: V output mon or. Open colle ole analog prore amming contr ole PS output ole V output ol	ser selectable ser selectable ser selectable scale, user sel able. Accuracy able.	Accuracy and Accur	t over 30 mini Il linearity: +/- Il linearity: +/- Id linearity: +/- acy and linea acay and linea acay and linea cacy and linea con: On: On: On: On: On: con: On: On: On: On: con: On: On: On: On: On: On: con: On: On: On: On: On: On: On: con: On: On: On: On: On: On: On: On: con: On: On: On: On: On: On: On: On: con: On: On: On: On: On: On: On: On: On: con: On: On: On: On: On: On: On: On: On: con: On: On: On: On: On: On: On: On: On: O	utes following  0.15% of ratec 0.4% of rated rity: +/-0.5% of rity: +/-0.5% of  ut Off: Off. M: ut Voltage: 3i dry contact. R On. Local: Off or short, 2-3 e: 0~0.0° or si imum sink cu imput voltage lay between	I Vout.  I Vout.  Iout.  of rated Vout.  of rated lout.  over the control of rated lout.	ge: 30V, Maxin Sink Current: V or short. Loc Itage: 30V, Mas ser selectable 30V or open. Shunted by 27 Iximum high	10mA. :al: 2~30V or o kimum Sink Cu logic. 'V zener)	pen. Irrent: 10mA.
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## **GENESYS™ 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 34	150	300	600
2.Rated output current (*2)		Α	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		٧	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 w	rire + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342 V models: 342	~460Vac, 47~ ~528Vac, 47~	63Hz (Covers 2 63Hz (Covers 63Hz (Covers 3 63Hz (Covers 2	380/400/415V 380/400/415/4	40/460/480Va	ac)			
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models: 1-Phase, 200V models:		12.5A @ 200V 6.5A @ 380Va 6.5A @ 380Va 21A @ 200Va	/ac ac ac								
3.Power Factor (Typ)	T Thuse, 2004 models.		For 3-Phase:	0.94 @ 200/38 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)			Less than 50/									
1 May Line regulation (*7)		V	10 0.010/. of rate	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*8)				d output volta 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)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C				llowing 30 mir			1 10:			
6.Temperature stability 7. Warm-up drift						llowing 30 min +2mV over 30				ıp.		
8.Remote sense compensation/w	vire (*10)	V	Less than 0.0	2	5	5 5	5	wing power of	n. 5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11) No load (*12)	mS mS	50 450	50 600	80 800	80 900	80 1100	100 1300	100 2100	100 2000	100 3000	200 3100
11.Transient response time		mS	Time for outp 10~100%, Lo	out voltage to cal sense. Les	recover withi s than 1mS, fo	n 0.5% of its ra r models up to	ited output fo and includin	or a load chang g 100V. 2mS, f	ge 10~90% of or models ab	rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 S	ec								
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr								
2.Max. Load regulation (*13)	DI (#4.4)			d output curr	1	.150	.100	-70	.45	.20	-42	
3.Ripple r.m.s. @ rated voltage. 3- 4.Ripple r.m.s. @ rated voltage. 1-		mA mA	≤800 ≤1200	≤450 ≤600	≤300 ≤300	≤150 ≤300	≤100 ≤200	≤70 ≤100	≤45 ≤60	≤30 ≤40	≤12 ≤12	≤5 ≤8
5.Temperature coefficient	riidse (*14)	PPM/°C	10V~100V	100PPM/°C fr	om rated out	put current, fo ut current, foll	llowing 30 mi	inutes warm-u	ip.	_ 540	<u> </u>	≥0
6.Temperature stability						llowing 30 mir				perature.		
7. Warm-up drift			10V~100V m	odel: Less thar	n +/-0.25% of	rated output c	urrent over 30	0 minutes follo	owing power	•		
ANALOG PROGRAMMING AND N									p			
	MONITORING (ISOI ATEC	FROM	THF OUTPUT)									
	MONITORING (ISOLATED			V or 0~10V, us	ser selectable	. Accuracy and	linearity: +/-	0.15% of rated	Vout.			
1.Vout voltage programming 2.lout voltage programming (*15			0~100%, 0~5			. Accuracy and						
Nout voltage programming     Inout voltage programming (*15)     Nout resistor programming	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full	ser selectable scale, user sel	. Accuracy and ectable. Accur	linearity: +/-0 acy and linea	0.4% of rated I rity: +/-0.5% o	out. f rated Vout.			
Nout voltage programming     Lout voltage programming (*15     Nout resistor programming     Lout resistor programming (*15	5)	  	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full /10Kohm full	ser selectable scale, user sel scale, user sel	. Accuracy and ectable. Accur ectable. Accur	linearity: +/-0 acy and linea	0.4% of rated I rity: +/-0.5% o	out. f rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full DV, user select	ser selectable scale, user sel scale, user sel able. Accurac	. Accuracy and ectable. Accur ectable. Accur y: +/-0.5%.	linearity: +/-0 acy and linea	0.4% of rated I rity: +/-0.5% o	out. f rated Vout.			
1.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)	5)	   	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full	ser selectable scale, user sel scale, user sel able. Accurac	. Accuracy and ectable. Accur ectable. Accur y: +/-0.5%.	linearity: +/-0 acy and linea	0.4% of rated I rity: +/-0.5% o	out. f rated Vout.			
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 6.Soutput voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	5)	T)	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	V or 0~10V, us 1/10Kohm full 1/10Kohm full 1/10V, user select	ser selectable scale, user sel scale, user sel able. Accurac able. Accurac itor. Open coll	Accuracy and ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%.	linearity: +/-d acy and linea acy and linea On: On. Outp	0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma	out. If rated Vout. If rated lout.		num Sink Curro	ent: 10mA.
1.Vout voltage programming (*15 3.Vout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA	S)  ATED FROM THE OUTPU	    T)	0~100%, 0~5 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 CV/CC Monit Enable/Disab	V or 0~10V, us 1/10Kohm full 1/10Kohm full 1/10Kohm full 1/10Kohm full 1/10V, user select 1/10V, user select 1/10V	ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll sector. CC mode ogramming co	Accuracy and ectable. Accur ectable. Accur extable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV modentrol by electrr	linearity: +/- acy and linea acy and linea On: On. Outp e: Off. Maximu ical signal or	0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma um Voltage: 30 dry contact. Ri	out. If rated Vout. If rated lout. It rated lout.	Sink Current: V or short. Loc	10mA. :al: 2~30V or o	pen.
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout 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 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	ATED FROM THE OUTPU	T)	0~100%, 0~5 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 Enable/Disat analog progr Enable/Disat Two open dr. Maximum Iı edge trigge By electrical 4~5V=OK, 0\tag{OK}	V or 0~10V, us //10Kohm full //10Kohm full //10Kohm full //10Kohm full // user select. // v output monion. Open collelogo. Or. Open collelogo analog proramming control full // user select. // v output monion full // user select. // v output full // user select. // user	ser selectable scale, user sel scale, user sel scale, user sel scale, user sel able. Accuraciable. A	Accuracy and ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. y: +/-0.5%. ector. Output ee: On. CV modentrol by electrinal. Open colleginal or dry coignal or dry coig	linearity: +/-4 acy and linea acy and linea acy and linea acy and linea con: On: On: On: On: On: con: On: On: On: On: con: On: On: On: con: Remote: ntact. O0.6V ntact. Remote and 15th Mex m high level num, Min de	0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Maum Voltage: 30 dry contact. Rr. On. Local: Off. or short, 2~36 e: 0~0.6V or shimum sink cur input voltag lay between	out.  If rated Vout.  If rated lout.  If rated lout.  If with a control of the co	Sink Current: V or short. Loc ltage: 30V, May ser selectable 30V or open. Shunted by 27 eximum high	10mA. :al: 2~30V or o ximum Sink Cu logic. 'V zener)	pen. rrent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 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 sigr 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 11. PATALLE OF TABLE SIGNAL 12. Series operation 2. Series operation	ATED FROM THE OUTPU	T)	0-100%, 0-5 0-100%, 0-5 0-100%, 0-5 0-100%, 0-5 0-100%, 0-5 0-5V or 0-1C 0-5V or 0-1C Power supply CV/CC Monit Enable/Disak analog progr Enable/Disak Enable/Disak Enable/Disak Enable/Disak Enable/Disak Enable/Disak Enable/Osak Enable/	V or 0~10V, us V10Kohm full V10Kohm full V10Kohm full V10Kohm full V1, user select. V2 output monior. Open colled value and v2 output monior. Open colled value v2 output value v2 output v2 output v3 output	ser selectable scale, user sel scale, user sel scale, user sel able. Accuracy abl	Accuracy and ectable. Accur ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. ector. Output e: On. CV modinator of the properties of t	linearity: +/-4 acy and linea acy and linea acy and linea On: On. Outp e: Off. Maxim ical signal or rctor. Remote: ntact. 0~0.6V Max m high level hum, Min de	0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma m Voltage: 3C dry contact. Rivor Son. Local: Off. Or short, 2~3C e: 0~0.6V or shimum sink cur input voltaglay between uction manua	out.  frated Vout.  frated lout.  frated lout.  ximum Voltag  y, Maximum  emote: 0~0.6  Maximum Voltag  mont. Local: 2~  per = 2.5V, Max  2 pulses 1 m	Sink Current: V or short. Loc ltage: 30V, May ser selectable 30V or open. Shunted by 27 eximum high	10mA. :al: 2~30V or o ximum Sink Cu logic. 'V zener)	pen. rrent: 10mA.
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.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 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 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms	ATED FROM THE OUTPU		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 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 analog progr Enable/Disat Enable/Disat Enable/Disat Two open dr. Maximum I. Maximum I. Possible. Up Possible. Up Possible. Up Possible up	IV or 0~10V, us V10Kohm full V10Kohm full V10Kohm full V1, user select V1, v user select V1, v user select V1, v user select V2, v user select V3, v user select V3, v user select V4, v user select V4, v user select V6, v user select V7, v user se	ser selectable scale, user sel scale, user sel scale, user sel able. Accuracy abl	Accuracy and ectable. Accur ectable. Accur ectable. Accur y: +/-0.5%. y: +/-0.5%. y: +/-0.5%. lector. Output e: On. CV mod ntrol by electr nal. Open collegnal or dry co daximum volt 0.8V, Minimur ff=1us Maxim ry contact. letruction manus y chain to syned value. Pronge: 1~1000n fall slew rate. F	On: On. Outpe e: Off. Maxim ical signal or rcctors Remote: ntact. 0~0.6V Maxim ical signal or rcctor. Remote: ntact. 0~0.6V Max m bigh, level num, Min de	ut Off: Off. Ma mr Voltage: 3. dry contact. R: on. Local: Off. or short, 2~30 e: 0~0.6V or shimum sink cur input voltage lay between	out.  If rated Vout.  If rated lout.  If rated	Sink Current: V or short. Loc Itage: 30V, Mas ser selectable 30V or open. Shunted by 27 iximum high is.  or the front pa ports or the lec. or A/mSec	10mA.  :al: 2~30V or o kimum Sink Cu logic.  'V zener)  · level input =	pen. rrent: 10mA.  = 5V positive  g via the
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## **G**ENESYS<sup>™</sup> 5kW SERIES SPECIFICATIONS

	,															
OUTPUT RATING		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)		٧	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	5000	34 5100	25 5000	17 5100	13 5200	10 5000	8.5 5100
				,	, I	1		1								
INPUT CHARACTERISTICS		V	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,	400V mod	dels: 342~	460Vac, 4	7~63Hz (C	overs 200/ overs 380	)/400/415\	/ac) 140/460/48	20Vac)					
2. Maximum Input current at	3-Phase, 200V models: 3-Phase, 400V models:		17.5A @ 2 9.2A @ 38	00Vac	JC13. 3 12	320 vac, 47	03112 (C	0 ( ) ( )	100/115/	110/100/10	JOVUC)					
100% load	3-Phase, 480V models:		9.2A @ 38	30Vac												
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)		%	0.94 @ 20 89 (*21)		, rated ou 91	tput powe	er. 90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		A	Less than					1 7.	1 2.		7.	7.	, ,,	, ,,	, ,,	
CONSTANT VOLTAGE MODE	<u></u>	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					put voltac		] 50	00	00	100	150	200	300	100	300	000
2.Max. Load regulation (*8)					put voltac											
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	50PPM/°C	C from rat	ed output	voltage,	following	30 minute	es warm-u	p.						
6.Temperature stability			0.01% of	rated Vou	t over 8hr	s interval	following	30 minute	es warm-u	p. Consta	nt line, loa	d & temp.				
7. Warm-up drift			Less than	0.05% of	rated out	put volta	ge+2mV o	ver 30 min	utes follo	wing pow	er on.					
8.Remote sense compensation/w	vire (*10)	٧	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
10.50wii-brod response tiine:	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 6 10~100%	output vo , Local se	Itage to re nse. Less t	ecover wit han 1mS,	thin 0.5% of for model	of its rated s up to an	d output fo d includin	or a load cl g 100V. 2r	nange 10~ nS, for mo	90% of ra dels abov	ted outpu e 100V.	it current.	Output se	et-point:
12.Start up delay		Sec	Less than	5 Sec												
CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					put currer				, ,,,		.50					
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\	/ 100P	PM/°C fro	m rated o	utput curr	ent, follov	wing 30 m	inutes wa	m-up.					
							<u></u>			nutes warr						
6.Temperature stability										p. Constai						
7. Warm-up drift										0 minutes utes follov			1.			
ANALOG PROGRAMMING AND M	MONITORING (ISOLATED	FROM T	HE OUTPU	JT)		,					•					
1.Vout voltage programming			0~100%,	0~5V or 0	~10V, use	r selectab	le. Accura	cy and lin	earity: +/-	0.15% of ra	ited Vout.					
2.lout voltage programming (*15	5)		0~100%,	0~5V or 0	~10V, use	r selectab	le. Accura	cy and lin	earity: +/-	0.4% of ra	ted lout.					
3.Vout resistor programming			0~100%,	0~5/10Kc	hm full so	ale, user s	electable	. Accuracy	and linea	rity: +/-0.5	% of rate	d Vout.				
4.lout resistor programming (*15			01000/-	0~5/10Kc	hm full so	ale, user s	electable	. Accuracy	and linea	rity: +/-0.5	% of rate	d lout.				
	5)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout. 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.													
5.Output voltage monitor	5)		0~5V or 0													
	5)		0~5V or 0					% of rateo								
5.Output voltage monitor			0~5V or 0													
5.Output voltage monitor 6.Output current monitor (*15)			0~5V or 0	)~10V, us€	er selectal	ole. Accura	acy: +/-0.5	% of rated	d lout.	ut Off: Off	. Maximui	n Voltage	: 30V, Max	imum Sin	k Current:	10mA.
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal	ATED FROM THE OUTPU	 	0~5V or 0 0~5V or 0 Power su	pply outponitor. Op	er selectab out monito en collect	or. Open cotor. CC mo	ollector. Code: On. C	of rated Output On V mode: O	d lout. : On. Outp	um Voltag	e: 30V, Ma	ximum Si	nk Curren	t: 10mA.		
5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	ATED FROM THE OUTPU	 F)	0~5V or C 0~5V or C Power su CV/CC Mo Enable/D	pply outponitor. Op	er selectab out monito en collect alog prog	or. Open cor. CC mo	ollector. Code: On. CV	of rated Output On: V mode: O v electrical	d lout. : On. Outp ff. Maxim	um Voltag dry contac	e: 30V, Ma ct. Remote	ximum Si e: 0~0.6V d	nk Current or short. L	t: 10mA. ocal: 2~30	V or open	
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5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL/ 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 OUTPU	 F) 	0~5V or 0 0~5V or 0 Power su CV/CC Mo Enable/D analog pr Enable/D	pply outponitor. Op visable and rogrammi	out monito en collect alog prog ng control output by	or. Open cor. CC moramming monitor so	ollector. Conde: On. CV control by ignal. Ope	Output On: V mode: O v electrical en collecto dry conta	: On. Outp ff. Maxim I signal or r. Remote: ct. 0~0.6V	um Voltag dry contac On. Local: ' or short, :	e: 30V, Ma ct. Remote Off. Maxir 2~30V or c	ximum Sii 2: 0~0.6V o num Volta open. Usei	nk Current or short. Lo ge: 30V, M r selectabl	t: 10mA. ocal: 2~30 laximum S le logic.	V or open	
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### GENESYS™ 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 shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.													
2.Over-voltage protection (OVP)		Output shut-down. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication.													
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   5~661.5   5~661.5													
4. Over-voltage programming accuracy		+/-1% of rated output voltage													
5.Output under voltage limit (UVL)		Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port.													
6.Over temperature protection		Shuts down the output. Auto recovery by autostart mode.													
7. Output under voltage limit (UVL)		Prevents adjustment of Vout below limit.													
8. Output under voltage protection (UVP)		Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.													
FRONT PANEL															
1.Control functions		Multiple options with 2 Encoders													
		Vout/lout/Power Limit manual adjust													
		OVP/UVL/UVP manual adjust													
		Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC													
		Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.													
		Output ON/OFF. Front Panel Lock.													
		Communication Functions - Selection of Baud Rate, Address, IP and communication language.													
		Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming													
		Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.													
2.Display		Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.													
		lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.													
3.Front Panel Buttons Indications		OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.													
4. Front Panel Display Indications		Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.													
ENVIRONMENTAL CONDITIONS															
1.Operating temperature		0~50°C, 100% load.													
2.Storage temperature															
3.Operating humidity	%														
4.Storage humidity	%	10~95% RH (no condensation).													
5.Altitude (*17)		Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).													
		operating, 1000011 (300011), output current derating 2 %/10011101 1a derating 1 C/100111 above 200011. Non operating, 4000011 (1200011).													
MECHANICAL															
1.Cooling		Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear													
2.Weight	kg	2.7kW/3.4kW - Less than 6.25kg. 5kW - Less than 7.5kg.													
3.Dimensions (WxHxD)	mm	W: 423, H: 43.6, D: 441.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 553.2 (Including busbars and busbars cover) (Refer to Outline drawing).													
4.Vibration		MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1													
5.Shock		Less than 20G, half sine, 11mSec. Unit is unpacked.													
SAFETY/EMC															
1.Applicable standards: Safety		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.													
1.1. Interface classification		Vout≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, J8 (sense) & J9 (communication options) are Non Hazardous. 60≤Vout≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous.													
		Vouts50V Models: Input — Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60VsVouts100V Models: Input — Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) – J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min.													
1.2 Withstand voltage		Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min.  100V Voutse00V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min.  Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min.  Output & J8 (sense) - Ground: 2500VDC 1min.  Input - Ground: 2835VDC 1min.													
1.2 Withstand voltage  1.3 Insulation resistance		100½-Vouts600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min.													
1.3 Insulation resistance		100½-Vouts600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min. Input - Ground: 2835VDC 1min.  100Mohm at 25°C, 70%RH. Output to Ground 500VDC													
		100\(\frac{\cute{4}\cute{2}\cu													

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: G5KW: Derate SA/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 ciput voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

  \* 6: Not including EMI filter inrush current, less than 0.2m5ec.

  \* 7: 3-Phase 200V models: 170-265Vac, 3-Phase 400V 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-913TC (1:1) probe. For 200~600V model: 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.

  \* 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. Bw 512-7MHz.

  \* 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: 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 For 10V model only: Max. output current for using IEEE is 400 C.

  \* 20 For 10V model only: Max. output current for using IEEE is 400 A.

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

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







## **GENESYS™ 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		A	B	Α	В	В	Α	Α	В	B	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)	A	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
INPUT CHARACTERISTICS	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)		3-Phase, 20	00V models: 80V models:	170~265Va	c, 47~63Hz	(Covers 200	/230Vac).			300	000	1000	1500
2.Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 480V models:		25.5A @ 20	0Vac.	. 542-52000	10, 4703112	(COVEI 3 30C	,,400,413,4	10/100/100	vacj.				
	-	13.5A @ 38											
3.Power Factor (Typ.)			/380Vac, rat	T	**	**	01	01	**	**	02	**	00
4.Efficiency (Typ.) (*5) (*3) 5.Inrush current (*6)	% A	91 Less than 6		91			91	91			92		92
				40		00	100	150	200	200	600	1000	1500
CONSTANT VOLTAGE MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ted output		1/								
2.Max. Load regulation (*8)			ted output		nV.	**	00	150	**	**	450	**	1200
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	**	80	**	**	90	150	**	**	450	**	1300
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10		8			15	20	**	**	100	**	500
5.Temperature coefficient			from rated o						1. 1 10				
6.Temperature stability			ted Vout ov							temperatu	ire.		
7.Warm-up drift		1	0.05% of rate	T .					1	_	-	_	_
8.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) No load (*12)	mS	50 600	**	80 1000	**	**	100 1500	100 2500	**	**	600 3000	**	400 3000
[NO 1080 ( 12)	<del>                                     </del>		ıtput voltaç										3000
11.Transient response time		Output set	point: 10~1	00%, Local	sense.				-	,. oi iateu 0	put curre		
12.Start up delay		Less than 5											
13.Hold-up time			al. Rated out	tput power.									
CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ited output										
2.Max. Load regulation (*13)		1	ted output										
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	**	≤300	**	**	≤70	≤45	**	**	≤14	**	≤5
			models: 100		om rated ou	tout curren			warm-up.	l			
4.Temperature coefficient	PPM/°C		V models: 7										
5. Temperature stability		_	ted lout ove								re.		
			models: Les										
6.Warm-up drift			V models: L										
ANALOG PROGRAMMING AND MONITORING (ISOLATED	1	1											
1.Vout voltage programming			~5V or 0~10										
2.lout voltage programming (*15)			~5V or 0~10										
3.Vout resistor programming		1	~5/10KΩ ful										
4.lout resistor programming (*15)		+	~5/10KΩ ful					: +/-0.5% of	rated lout.				
5.Output voltage monitor			10V, user se										
6.Output current monitor (*15)		0~5V or 0~	10V, user se	lectable. Ac	curacy: +/-	0.5% of rate	d lout.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	Γ)												
1.Power supply OK #1 signal		Power sup	ply output r	nonitor. Op									
2.CV/CC signal		CV/CC Mor	itor Open		en collecto	. Output Or	n: On. Outpu	ut Off: Off. I	Maximum V	oltage: 30V.	Maximum S	Sink Current	t: 10mA.
3.LOCAL/REMOTE Analog control		1	iltor. Open t	collector. CO							Maximum S		t: 10mA.
			able analog		mode: On.	CV mode: 0	Off. Maximu	m Voltage:	30V. Maxim	ıum Sink Cu	rrent: 10mA	١.	
4.LOCAL/REMOTE Analog control	-	Enable/Dis		programm	mode: On. ning control	CV mode: 0 by electrica	Off. Maximu al signal or c	m Voltage: Iry contact.	30V. Maxim Remote: 0	um Sink Cu ~0.6V or sho	rrent: 10mA ort. Local: 2~	-30V or ope	n.
		Enable/Dis Analog pro	able analog	programm control mon	mode: On. ning control nitor signal. (	CV mode: 0 by electrica Open collect	Off. Maximu al signal or c tor. Remote:	m Voltage: Iry contact. : On. Local:	30V. Maxim Remote: 0 Off. Maximu	um Sink Cu ~0.6V or sho im Voltage:	rrent: 10mA ort. Local: 2~ 30V. Maximu	-30V or oper um Sink Cur	n.
4.LOCAL/REMOTE Analog signal		Enable/Dis Analog pro Enable/Dis	able analog gramming o	programm control mon put by elect	mode: On. ning control nitor signal. ( trical signal	CV mode: C by electrica Open collect or dry conta	Off. Maximu al signal or c tor. Remote: act. 0~0.6V	m Voltage: Iry contact. : On. Local: 0 or short, 2~	30V. Maxim Remote: 0 Off. Maximu 30V or ope	um Sink Cu ~0.6V or sho Im Voltage: n. User sele	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic.	30V or ope um Sink Cur	n.
4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open o	able analog gramming o able PS out able PS out drain progra	programm control mon put by elect put by elect ammable sig	E mode: On. ning control nitor signal. ( trical signal trical signal gnals. Maxir	CV mode: C by electrica Open collect or dry conta or dry conta num voltag	Off. Maximu al signal or c tor. Remote act. 0~0.6V act. Output e 25V. Maxi	m Voltage: dry contact. On. Local: or short, 2~ ON: 0~0.6\ mum sink c	30V. Maxim Remote: 0- Off. Maximu 30V or open or short. O urrent 100r	um Sink Cu ~0.6V or sho im Voltage: n. User sele utput OFF:	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal 6.INTERLOCK (ILC) control		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Maximum I	gramming of able PS out able PS out drain progra low level in high level ir	programm control mon put by elect put by elect ammable sig put voltage put = 5V po	mode: On.  ning control  itor signal. (  trical signal  trical signal  gnals. Maxir  = 0.8V. Min	CV mode: C by electrica Open collect or dry conta or dry conta num voltag	Off. Maximu al signal or c tor. Remote act. 0~0.6V act. Output e 25V. Maxi level input v	m Voltage: lry contact. : On. Local: ! or short, 2~ ON: 0~0.6\ mum sink c /oltage = 2.	30V. Maxim Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V.	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
4.LOCAL/REMOTE Analog signal 5.ENABLE/DISABLE signal 6.INTERLOCK (ILC) control 7.Programmed signals 8.TRIGGER IN / TRIGGER OUT signals		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Maximum I Min delay b	able analog gramming o able PS out able PS out drain progra low level in high level ir petween 2 p	programm control mon put by elect put by elect ammable sig put voltage put = 5V po pulses 1ms.	C mode: On. sing control itor signal. ( trical signal trical signal gnals. Maxir = 0.8V. Min ositive edge	CV mode: C by electrica Open collect or dry conta or dry conta num voltag imum high trigger: tw	Off. Maximu al signal or c tor. Remote act. 0~0.6V act. Output e 25V. Maxi level input v	m Voltage: lry contact. : On. Local: ! or short, 2~ ON: 0~0.6\ mum sink c /oltage = 2.	30V. Maxim Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V.	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
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		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Maximum I Min delay b By electrica	able analog gramming of able PS out able PS out drain progra low level in high level ir petween 2 p al Voltage: 0	programm control mon put by elect put by elect ammable sig put voltage put = 5V po oulses 1ms. )~0.6V/2~30	C mode: On. ing control iitor signal. ( trical signal trical signal gnals. Maxir = 0.8V. Min ositive edge	CV mode: C by electrica Open collect or dry conta or dry conta num voltag imum high trigger: tw	Off. Maximu al signal or c tor. Remote act. 0~0.6V act. Output e 25V. Maxi level input v	m Voltage: lry contact. : On. Local: ! or short, 2~ ON: 0~0.6\ mum sink c /oltage = 2.	30V. Maxim Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V.	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
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		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Maximum I Min delay b By electrica	able analog gramming o able PS out able PS out drain progra low level in high level ir petween 2 p	programm control mon put by elect put by elect ammable sig put voltage put = 5V po oulses 1ms. )~0.6V/2~30	C mode: On. ing control iitor signal. ( trical signal trical signal gnals. Maxir = 0.8V. Min ositive edge	CV mode: C by electrica Open collect or dry conta or dry conta num voltag imum high trigger: tw	Off. Maximu al signal or c tor. Remote act. 0~0.6V act. Output e 25V. Maxi level input v	m Voltage: lry contact. : On. Local: ! or short, 2~ ON: 0~0.6\ mum sink c /oltage = 2.	30V. Maxim Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V.	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
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		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Maximum I Min delay b By electrica 4~5V = OK,	able analog gramming o able PS out able PS out drain progra low level in high level ir petween 2 p al Voltage: 0 , 0V (500Ω in	programm control mon put by elect put by elect ammable sig put voltage put = 5V poulses 1ms. 0~0.6V/2~30 mpedance)	C mode: On.  ning control  itor signal. (  trical signal  trical signal  gnals. Maxir  = 0.8V. Min  ositive edge  OV or dry col  = Fail.	CV mode: C by electrica Open collect or dry conta or dry conta num voltag mum high trigger: tw	Off. Maximu al signal or c tor. Remote: act. 0~0.6V act. Output e 25V. Maxi level input v = 10us min	m Voltage: Iry contact. On. Local: Or short, 2~ ON: 0~0.6V mum sink c roltage = 2. imum. Tr,Tf	30V. Maxim Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V. = 1us maxin	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
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		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Maximum I Min delay b By electrica 4~5V = OK,	able analog gramming o able PS out able PS out drain progra low level in high level ir petween 2 p al Voltage: 0 , 0V (500Ω in	programm control mon put by elect put by elect ammable sig put voltage put = 5V poulses 1ms. 0~0.6V/2~30 mpedance)	C mode: On. ing control ing control itor signal. ( trical signal trical signal gnals. Maxir = 0.8V. Min ositive edge OV or dry co = Fail.  Master/Slav	CV mode: C by electrica Open collect or dry conta or dry conta mum voltag imum high trigger: tw intact.	Off. Maximul signal or coor. Remote act. 0~0.6V act. Output e 25V. Maxi level input v = 10us min	m Voltage: Iry contact. On. Local: Or short, 2~ ON: 0~0.6V mum sink c roltage = 2. imum. Tr,Tf	30V. Maxim Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V. = 1us maxin	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
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 2. Series operation		Enable/Dis Analog pro Enable/Dis Enable/Dis Two open of Maximum I Min delay b By electrica 4~5V = OK, Possible. U Possible. T	able analog gramming of able PS out able PS out drain progration low level in between 2 pal Voltage: 0, 0V (500Ω in p to 4 ident wo identical	programm control mon put by elect put by elect ammable sig put voltage put voltage put = 5V p pulses 1ms. 0~0.6V/2~30 mpedance) ical units in I units. Refe	C mode: On. ing control iitor signal. ( trical signal trical signal gnals. Maxir = 0.8V. Min sositive edge OV or dry cor = Fail.  Master/Slav r to instruct	CV mode: C by electrica Open collect or dry conta or dry conta mum voltag mum high trigger: tw intact.	Off. Maximul signal or coor. Remote act. 0~0.6V act. Output e 25V. Maxi level input v = 10us min	m Voltage: lry contact. con. Local: or short, 2~ ON: 0~0.6v mum sink c voltage = 2. imum. Tr,Tf	30V. Maximu Remote: 0- Off. Maximu 30V or oper or short. O urrent 100r 5V. = 1us maximu al.	oum Sink Cu ~0.6V or sho om Voltage: n. User selen utput OFF: nA (shunted	rrent: 10mA ort. Local: 2~ 30V. Maximu ctable logic. 2~30V or op	i. ·30V or oper um Sink Curr · · ·	n.
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### GENESYS™ 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	20	30	40	60	80	100	150	200	300	600	1000	1500		
TROTECTIVETORCTIONS		· ·														
1.Foldback protection			Reset by AC	input recycl	e in autostar	t mode, by F	Power Switc	h, by OUTPU	T button, by	rear panel o	CC or Power by commun	ication.				
2.Over-voltage protection (OVP)											tton, by rear					
3.Over-voltage programming ran		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 acc				ed output vo												
5.Output under voltage limit (UVI	_)							analog pro	gramming. F	reset by fron	t panel or co	mmunicatio	n port.			
6.Over temperature protection					Auto recove											
7.Output under voltage protectio	n (UVP)		Prevents ad Reset by AC	events adjustment of Vout below limit. P.S output turns Off during under voltage condition. set by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.												
FRONT PANEL																
1.Control functions				tions with 2												
					nanual adjus	t										
			OVP/UVL/U													
					VP, UVL,UVP											
						n of LAN,IE	EE,RS232,RS	485,USB or (	Optional con	nmunication	interface.					
			Output ON/													
	Communication Functions - Selection of Baud Rate, Addres															
								K programm	ng							
					ns - Selectio				/10V.							
2.Display			Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.													
			lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.  OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.													
3.Front Panel Buttons Indications			OUTPUT ON	I, ALARM, PF	EVIEW, FINE	, COMMUNI	CATION, PRO	OTECTION,C	ONFIGURAT	ON, SYSTEM	, SEQUENCER	ł				
4. Front Panel Display Indications			Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.													
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 100	% load.												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% RH	(no conden	sation)									-		
4.Storage humidity		%	20~90% RH (no condensation).													
5.Altitude (*17)		70	10~95% RH (no condensation).  Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).													
			operating.	1000011 (300	om, output	current dere	1tilig 2 /0/ 10t	Jiii oi ia dei	atting 1 C/10	om above 20	oom. Non op	erating. 400	0011 (1200011	1).		
MECHANICAL																
1.Cooling					ernal fans. A	irflow direc	tion: From f	ront panel t	power sup	ply rear.						
2.Weight		kg	Less than 8.	5Kg.												
3.Dimensions (WxHxD)		mm			(Without bu (Including b				Outline draw	ring.						
4.Vibration			MIL-810G, m	nethod 514.6	, Procedure	l, test condi	tion Annex	C - 2.1.3.1								
5.Shock					11mS. Unit is											
SAFETY/EMC																
1.Applicable standards:	Safety		UL61010-1	CSA22.2 No	61010-1. IEC6	1010-1. EN6	1010-1.									
- Physical and and	1	1						. 10 (commu	nication ont	ions) are Nor	Hazardous					
1.1. Interface classification											ation option	c) aro Nan II	lazardo::s			
			Vout≤50V N	lodels: Inpu	- Output &						s): 4242VDC 1		azaruous.			
			60V≤Vout≤1	(sense) - J1,	:: Input – Out J2, J3, J4, J5,	put & J8 (se J6, J7 & J9 (d	nse), J1, J2, J communicat	l3, J4, J5, J6, tion options	J7 & J9 (com ): 850VDC 1n	munication on the street and the str	pptions): 4242 J8 (sense) - 0	VDC 1min, Ground: 1500	0VDC 1min,			
1.2 Withstand voltage			100V <vouts Output &amp; J8 Input - Grou</vouts 	(sense) - J1,	J2, J3, J4, J5,	utput & J8 (s J6, J7 & J9 (c	ense), J1, J2 communicat	, J3, J4, J5, J6 tion options	, J7 and J9 (d ): 1275VDC 1	ommunicati min, Output	on options): 4 & J8 (sense) -	1242VDC 1m Ground: 250	in, 00VDC 1min.			
			Output & J8 Input - Grou	(sense) - J1, ınd: 2835VD	J2, J3, J4, J5, C 1min.	J6, J7 & J9 (d	communicat	J2, J3, J4, J5, tion options	J6, J7 and J9 : 2000VDC 1	(communica min, Output	ation options & J8 (sense) -	): 4000VDC Ground: 32	1min, 80VDC 1min.			
1.3.Isolation resistance			100Mohm a	t 25°C, 70%l	RH. Output to	Ground 5	00VDC									
2.EMC standards (*18)			IEC/EN6120	4-3 Industria	l environme	nt, Annex H	table H.1, F	CC Part 15-	A, VCCI-A.							
2.1.Conducted emission			IEC/EN6120	4-3 Industria	l environme	nt, Annex H	table H.3 a	nd H4, FCC I	Part 15-A, VC	CI-A						
2.2.Radiated emission					l environme											

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

- \*\*: 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.

- \*11: From 10% to 90% of Rated Output Voltage at rated resistive load.

  \*12: From 90% to 10% 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. 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.

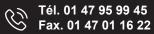






## **G**ENESYS<sup>™</sup> **G**SP10kW SERIES SPECIFICATIONS

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17
1.Rated output voltage(*1)		V	10-1000	20-300	30-340	40-230	50	60	80	100-100	150	200-30	300-34	400-26	500	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		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
INFOT CHARACTERISTICS		V				265Vac, 47				100	130	200	300	400	300	000
1.Input voltage/freq. 3 phase, 3 w	rire + Ground (*4)		3-Phase,	100V mod	lels: 342~4	460Vac, 47	7∼63Hz (C	overs 380	/400/415V		001/					
	2 Dhasa 200V madals		3-Phase, 4		ieis: 342~:	528Vac, 47	~63HZ (Co	overs 380/	400/415/4	40/460/4	80Vac)					
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models:		18.4A @ 3	80Vac												
3.Power Factor (Typ)	3-Phase, 480V models:		18.4A @ 3		rated out	tput powe	\r_									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)		91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)		A	Less than							, ,,			, ,,,	, ,,,	, ,,	, ,,
6.AC line phase imbalance		%	< 5%						-							
CONSTANT VOLTAGE MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					out voltag		] 30	00	00	100	150	200	] 300	1 400	300	000
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			50PPM/°C	from rat	ed output	voltage, f	ollowing	30 minute	s warm-u	p.						
6.Temperature stability			0.01% of i	ated Vou	t over 8hr	s interval f	following	30 minute	s warm-u	p. Consta	nt line, loa	d & temp.				
7. Warm-up drift			Less than	0.05% of	rated out	put voltag	e+2mV ov	er 30 min	utes follo	wing pow	er on.					
8.Remote sense compensation/wire (*10)			2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	F. U. 1785	mS C	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS ms	50	50	80	80	80	1000	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	1.Transient response time			output vo , Local sei	nage to re nse. Less f	ecover wit han 1mS. i	for model	or its rated s up to and	output fo	n a 10ad c g 100V. 2r	hange 10~ mS, for mo	วบ‰ oī rat dels abov∈	ea outpu 2 100V.	current. (	Jutput se	-point:
12.Start up delay		Sec	Less than			/										
CONSTANT CURRENT MODE																
1.Max. Line regulation (*7)			0.050/.of	atad aut	out curren			_						_		
2.Max. Line regulation (*7)					out currer											
3.Ripple r.m.s. @ 10% rated voltag	no R W 5H7~1MH7 (*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
	. D.W SHZ-HWITZ. (TAZS C)		10V~100\			m rated or						23	7.5	7.5		
5.Temperature coefficient		PPM/°C				rated out										
6.Temperature stability											nt line, loa	d & tempe	rature.			
7 W d-ift			10V~100\	/ model: L	ess than +	⊦/-0.25% c	f rated ou	tput curre	nt over 30	) minutes	following	power on.				
7. Warm-up drift			150V~600	)V: Less th	an +/-0.15	5% of rate	d output o	urrent ov	er 30 minu	ıtes follov	wing powe	r on.				
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPL	JT)												
1.Vout voltage programming					~10V. use	r selectab	e. Accura	cv and line	arity: +/-(	0.15% of r	ated Vout.					
	5)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.  0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.													
3 Vaut resistar programmina	2.lout voltage programming (*15)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.													
3. Vout resistor programming					-						_	l Vout.				
4.lout resistor programming (*15)	)		0~100%,	0~5/10Ko	hm full sc	ale, user s	electable.	Accuracy	and linear	rity: +/-0.	_					
	)		0~100%,	0~5/10Ko 0~5/10Ko	hm full sc hm full sc	ale, user s ale, user s	electable. electable.	Accuracy Accuracy	and linear and linear	rity: +/-0.	5% of rated					
4.lout resistor programming (*15	)		0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko ~10V, use	hm full sc hm full sc r selectab	ale, user s ale, user s	electable. electable. cy: +/-0.5	Accuracy Accuracy %. Of rate	and linear and linear d Vout.	rity: +/-0.	5% of rated					
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)			0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko ~10V, use	hm full sc hm full sc r selectab	ale, user s ale, user s ole. Accura	electable. electable. cy: +/-0.5	Accuracy Accuracy %. Of rate	and linear and linear d Vout.	rity: +/-0.	5% of rated					
4.lout resistor programming (*15 5.Output voltage monitor			0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use	hm full sc hm full sc r selectab r selectab	ale, user s ale, user s ole. Accura ole. Accura	electable. electable. cy: +/-0.5 cy: +/-0.5	Accuracy Accuracy %. Of rate %. Of rate	and linear and linear d Vout. d Iout.	rity: +/-0 rity: +/-0	5% of rated	lout.	30V, Maxi	mum Sink	Current: 1	0mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA		  	0~100%, 0~100%, 0~5V or 0 0~5V or 0	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use	hm full sc hm full sc r selectab r selectab ut monito	ale, user s ale, user s ole. Accura or. Open co	electable. electable. cy: +/-0.5 cy: +/-0.5	Accuracy Accuracy Contracted Accuracy A	and linear and linear d Vout. d lout. On. Outp	rity: +/-0 rity: +/-0 ut Off: Of	5% of rated 5% of rated	l lout. n Voltage:			Current: 1	0mA.
4.lout 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 contro	ATED FROM THE OUTPUT	   []	0~100%, 0~100%, 0~5V or 0 0~5V or 0	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use oply outp	hm full sc hm full sc er selectab er selectab ut monito en collect	ale, user s ale, user s ble. Accura ble. Accura or. Open co	electable. electable. cy: +/-0.5' cy: +/-0.5 bllector. O de: On. CV	Accuracy Accuracy Control Accuracy Accu	and linear and linear d Vout. d lout. On. Outp	rity: +/-0 rity: +/-0 ut Off: Of um Voltag	5% of rated 5% of rated f. Maximur	l lout. n Voltage: ximum Sin	k Current:	: 10mA.		0mA.
4.lout 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 contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPUT	  T) 	0~100%, 0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC Mo Enable/D analog pr	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use pply outp pnitor. Op isable ana ogrammi	hm full sc hm full sc r selectab r selectab ut monito en collect alog progi ng control	ale, user s ale, user s ole. Accura or. Open co or. CC mo ramming o	electable. electable. cy: +/-0.5 cy: +/-0.5 cy: +/-0.5 collector. O de: On. CV control by ignal. Ope	Accuracy Accuracy M. Of rates M. Of rates Mutput On: I mode: Of electrical en collector	and linear and linear d Vout. d lout. On. Outpo f. Maximu signal or o	rity: +/-0 rity: +/-0 ut Off: Of um Voltag dry conta : On. Loca	5% of rated 5% of rated f. Maximur ge: 30V, Max ct. Remote dl: Off. Maxi	n Voltage: ximum Sin : 0~0.6V o mum Volta	k Current: r short. Lo age: 30V, N	: 10mA. ocal: 2~30\ Maximum S	or open.	
4.lout 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 contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPUT	   T) 	0~100%, 0~100%, 0~5V or 0 0~5V or 0 Enable/D analog pr	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use oply outp onitor. Op isable ana ogrammii isable PS	hm full sc hm full sc er selectab ut monito en collect alog progr ng control output by	ale, user s ale, user s ble. Accura ble. Accura or. Open co or. CC mo- ramming of monitor s	electable. electable. cy: +/-0.5 cy: +/-0.5  ollector. O de: On. CV control by ignal. Ope	Accuracy Accuracy Control Accuracy Accu	and linear and linear d Vout. d lout. On. Outport f. Maximus signal or or, Remote ct. 0~0.6V	ut Off: Of Im Voltag dry conta or short,	f. Maximur ge: 30V, Maxid: Remote il: Off. Maxid: 2~30V or o	n Voltage: ximum Sin : 0~0.6V o mum Volta pen. User	k Current: r short. Lo age: 30V, M selectable	: 10mA. ocal: 2~30\ Maximum S	or open.	
4.lout 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 contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ATED FROM THE OUTPUT	    	0~100%, 0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC Mc Enable/D analog pr Enable/D	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poly outp pointor. Op isable ana ogrammi isable PS isable PS	hm full sc hm full sc or selectab or selectab ut monito en collect alog progr ng control output by output by	ale, user s ale, user s ale, user s ole. Accura ole. Accura or. Open co or. CC mo oramming of monitor s electrical	electable. electable. cy: +/-0.5' cy: +/-0.5' cy: +/-0.5' collector. O de: On. CV control by ignal. Ope signal or signal or	Accuracy Acc	and linear and linear d Vout. d lout.  On. Outpi f. Maximu signal or or r. Remote tt. 0~0.6V tt. Remote	rity: +/-0 rity: +/-0 ut Off: Off um Voltag dry conta : On. Loca or short, e: 0~0.6V	f. Maximur je: 30V, Max ct. Remote il: Off. Maxi 2~30V or o or short. Lo	n Voltage: 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. ocal: 2~30\ Maximum S e logic.	or open.	
4.lout 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 contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPUT	  T) 	0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/D analog pr Enable/D Two oper	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poly outponitor. Op isable ana ogrammi isable PS isable PS	hm full sc hm full sc r selectab r selectab ut monito en collect alog progr ng control output by output by	ale, user s ale, user s ale, user s ale, Accura ble. Accura or. Open co or. CC mo ramming of monitor s r electrical ble signals	electable. electable. cy: +/-0.5' cy: +/-0.5' cllector. O de: On. Cv control by ignal. Opes signal or signal or signal or Maximu	Accuracy Acc	and linear and linear d Vout. d lout.  On. Outpi f. Maximu signal or or r. Remote tt. 0~0.6V tt. Remote 25V, Maxi	rity: +/-0 rity: +/-0  ut Off: Off  um Voltag  dry conta : On. Loca  or short, 2: 0~0.6V  imum sinl	f. Maximur je: 30V, Max ct. Remote il: Off. Maxi 2~30V or o or short. Lo k current 1	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ATED FROM THE OUTPUT	    	0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Enable/D analog pr Enable/D Two oper	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poly outponitor. Op isable ana ogrammi isable PS isable PS	hm full sc hm full sc r selectab r selectab ut monito en collect alog progr ng control output by output by	ale, user s ale, user s ale, user s ale, Accura ble. Accura or. Open co or. CC mo ramming of monitor s r electrical ble signals	electable. electable. cy: +/-0.5' cy: +/-0.5' cllector. O de: On. Cv control by ignal. Opes signal or signal or signal or Maximu	Accuracy Acc	and linear and linear d Vout. d lout.  On. Outpi f. Maximu signal or or r. Remote tt. 0~0.6V tt. Remote 25V, Maxi	rity: +/-0 rity: +/-0  ut Off: Off  um Voltag  dry conta : On. Loca  or short, 2: 0~0.6V  imum sinl	f. Maximur je: 30V, Max ct. Remote il: Off. Maxi 2~30V or o or short. Lo k current 1	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ATED FROM THE OUTPUT	  T) 	0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0  Power su CV/CC Mc Enable/D analog pr Enable/D Two oper Maximuledge trig	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poply outponitor. Op isable ana ogrammi isable PS of drain pro m low legger: tw=	hm full sc hm full sc or selectab or selectab ut monito en collect alog progr ng control output by output by output by orgrammal vel input =10us mir	ale, user s ale, user s ale, user s ale, Accura ble. Accura or. Open co or. CC mo ramming of monitor s r electrical ble signals	electable. electable. cy: +/-0.5' cy: +/-0.5  bllector. O de: On. CV control by ignal. Ope signal or signal or signal or . Maximu = 0.8V,Mi r,Tf=1us I	Accuracy Acc	and linear and linear d Vout. d lout.  On. Outpi f. Maximu signal or or r. Remote tt. 0~0.6V tt. Remote 25V, Maxi	rity: +/-0 rity: +/-0  ut Off: Off  um Voltag  dry conta : On. Loca  or short, 2: 0~0.6V  imum sinl	f. Maximur je: 30V, Max ct. Remote il: Off. Maxi 2~30V or o or short. Lo	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 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	     	0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poply outp onitor. Op isable ana ogrammii isable PS isable PS odrain pro m low lee gger: tw- cal Voltag	hm full sc hm full sc or selectab or selectab ut monito en collect alog progra ng control output by output by output by oranmal vel input =10us mir pe: 0~0.6V	ale, user s ale, user s ale, user s ale, Accura ble. Accura or. Open co or. CC mo amming of monitor s r electrical ble signals voltage : nimum. T	electable. electable. cy: +/-0.5' cy: +/-0.5' cy: +/-0.5' cy: -/-0.5' cy: -/-0	Accuracy Acc	and linear and linear d Vout. d lout.  On. Outpi f. Maximu signal or or r. Remote tt. 0~0.6V tt. Remote 25V, Maxi	rity: +/-0 rity: +/-0  ut Off: Off  um Voltag  dry conta : On. Loca  or short, 2: 0~0.6V  imum sinl	f. Maximur je: 30V, Max ct. Remote il: Off. Maxi 2~30V or o or short. Lo k current 1	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 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	ATED FROM THE OUTPUT		0~100%, 0~100%, 0~5V or 0	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poply outp onitor. Op isable ana ogrammii isable PS isable PS odrain pro m low lee gger: tw- cal Voltag	hm full sc hm full sc or selectab or selectab ut monito en collect alog progra ng control output by output by output by oranmal vel input =10us mir pe: 0~0.6V	ale, user s ale, user s ale, user s ble. Accura ble. Accura br. Open co or. CC mo ramming of monitor s electrical f electrical ble signals voltage e nimum. T //2~30V or	electable. electable. cy: +/-0.5' cy: +/-0.5' cy: +/-0.5' cy: -/-0.5' cy: -/-0	Accuracy Acc	and linear and linear d Vout. d lout.  On. Outpi f. Maximu signal or or r. Remote tt. 0~0.6V tt. Remote 25V, Maxi	rity: +/-0 rity: +/-0  ut Off: Off  um Voltag  dry conta : On. Loca  or short, 2: 0~0.6V  imum sinl	f. Maximur je: 30V, Max ct. Remote il: Off. Maxi 2~30V or o or short. Lo k current 1	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	ATED FROM THE OUTPUT	     	0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Power sul CV/CC Mc Enable/D analog pr Enable/D Two oper Maximul edge trig By electri 4~5V=Ok	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use ~10V, use pply outp onitor. Op isable ana ogrammi isable PS isable PS of drain pro m low lee gger: tw- cal Voltag , oV (500c	hm full sc hm full sc or selectab or selectab ut monito en collect alog proging ontrol output by output by output by output input =10us min e: 0~0.6V ohm impe	ale, user s ale, user s ale, user s ble. Accura ble. Accura or. Open co or. CC mo ramming of monitor s electrical r electrical ble signals ble signals ble signals voltage = nimum. T //2~30V or dance)=F;	electable. electable. cy: +/-0.5' cy: +/-0.5'  cy: +/-0.5'  cy: +/-0.5'  cy: -/-0.5'  cy: -/-0.5	Accuracy Accuracy Accuracy Mode: Of rates Mutput On: Mode: Of Mod Mode: Of	and linear and linear d Vout. d lout.  On. Output f. Maximu signal or or r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level n, Min de	rity: +/-0 rity: +/-0 ut Off: Of um Voltag dry conta : On. Loca or short, :: 0~0.6V imum sini input vc lay betw	5% of rated 5% of rated f. Maximur je: 30V, Ma; ct. Remote il: Off. Maxi 2~30V or o or short. Lc k current 10 bltage = 2.	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 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	ATED FROM THE OUTPUT		0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Power su CV/CC Mc Enable/D analog pr Enable/D Two oper Maximu edge trig By electri 4~5V=Ok	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poply outp ponitor. Op pisable ana ogrammin isable PS isable PS of drain pro m low le gger: tw- cal Voltag , oV (500c)	hm full sc hm full sc re selectab ut monito en collect alog progra ng control output by output by output by output by output by output input =10us mii ge: 0~0.6V ohm impe	ale, user s ale, user s ale, user s ble. Accura ble. Accura br. Open co or. CC mo ramming of monitor s electrical f electrical ble signals voltage e nimum. T //2~30V or	electable. electable. cy: +/-0.5' cy: +/-0.5'  cy: +/-0.5'  cy: +/-0.5'  cy: -/-0.5'  cy: -/-0.5	Accuracy Accuracy Accuracy Mode: Of rates Mutput On: Mode: Of Mod Mode: Of	and linear and linear d Vout. d lout.  On. Output f. Maximu signal or or r. Remote ct. 0~0.6V ct. Remote 25V, Maxi igh level n, Min de	rity: +/-0 rity: +/-0 ut Off: Of um Voltag dry conta : On. Loca or short, :: 0~0.6V imum sini input vc lay betw	5% of rated 5% of rated f. Maximur je: 30V, Ma; ct. Remote il: Off. Maxi 2~30V or o or short. Lc k current 10 bltage = 2.	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30V	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout 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 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_IN/SO Control signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	ATED FROM THE OUTPUT	     	0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 0~5V or 0 Enable/D analog pr Enable/D Two oper Maximu edge trig By electri 4~5V=Ok	0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poply outponitor. Opinitor.	hm full sc hm full sc ir selectab ir selectab ut monito en collecta alog progra g control output by output by ogrammal yel input =10us mir je: 0~0.6V obm impe	ale, user s ale, user s ale, user s ole. Accura or. Open co or. CC mo- ramming of monitor s electrical ble signals voltage e nimum. T i/2~30V or dance)=Fi	electable. electable. cy: +/-0.5' cy: +/-0.5' cy: +/-0.5'  bllector. O de: On. CV control by ignal. Ope signal or signal or signal or signal or dry conta ali	Accuracy Acc	and linear	ut Off: Of uut Off: Off: or short, e: 0~0.6V imum sini input vc lay betw	f. Maximur je: 30V, Mai ct. Remote il: Off. Maxi 2~30V or o or short. Lo k current 1! oltage = 2. jeeen 2 pul	n Voltage: kimum Sin: : 0~0.6V o mum Volta pen. User pecal: 2~30V 00mA (Shu. 5V, Maxin ses 1ms.	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	: 10mA. ocal: 2~30V Maximum S e logic. 27V zener)	or open. ink Currer	nt: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)  SIGNALS AND CONTROLS (ISOL A 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_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	ATED FROM THE OUTPUT		0~100%, 0~100%, 0~5V or 0 0~5V or 0 0~5V or 0 Power sul CV/CC Mc Enable/D Enable/D Enable/D Two oper Maximu edge trid a~5V=Ok	0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use pply outp pnitor. Op isable ana ogrammi isable PS isable PS idrain pro m low leg gger: tw- cal Voltag , 0V (500c  Up to fou pitter four policies car	hm full sc hm full sc rr selectab ut monito en collect alog progragout poutput by output by output by output by output sel input =10us minge: 0~0.6V ohm impe	ale, user s ale, user s ale, user s ole. Accura or. Open co or. Open co or. Open co or. CC mo or amming of monitor s electrical ple signals voltage e nimum. T '/2~30V or dance)=Fi	electable. electable. cy: +/-0.5' cy: +/-0.5' cy: +/-0.5' de: On. CV control by ignal. Ope signal or signal or signal or signal or dry conta dry conta aiil	Accuracy Acc	and linear	ut Off: Off um Voltag dry conta : On. Loca or short, e: 0~0.6V imum sinit input vo lay betw	f. Maximur je: 30V, Ma; ct. Remote il: Off. Maxi 2-30V or o or short. Lo k current 1 bitage = 2. reen 2 pul	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User poal: 2~30' 00mA (Shu ses 1ms.	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 mum higi	: 10mA. ccal: 2~30\ Maximum S e logic. :7V zener) h level in	or open. ink Currer	nt: 10mA.
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4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) 1. Power supply OK #1 signal 2. C.V/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 7. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms 7. Arbitrary manual EEE (*19)(*1) 7. Alout programming accuracy (*1) 7. Alout programming resolution 8. Jour programming resolution 9. Jour programming progr	hals  K (USB, LAN, *20) Interfaces)		0~100%, 0~100%, 0~100%, 0~5V or 0 0~	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use pply outp onitor. Op isable ana ogrammin isable PS isable PS of ain pro material voltage cal v	hm full sc hm full sc hm full sc r selectab	ale, user s ale, accura ble. Accura or. Open co or. CC mo oramming of monitor s ale electrical ble signals voltage e nimum. T i/2~30V or dance)=Fi ical GSP un elected in D proggran elected in D proggran electron on the pan or be store  40 lee lege ent ge	electable. electable. electable. cy: +/-0.5' cy: +/-0.5' cy: +/-0.5' control by ignal. Ope signal or signal or is. Maximu = 0.8V,Mi r,Tf=1us I dry conta ail mits. For m aisy chain nmed valu tange: 1 t fall slew el. d in 4 mei	Accuracy Ac	and linear and linear and linear d Vout. d lout. On. Outp f. Maximu signal or or r. Remote t: 0~0.6V t: Remote 25V, Maxi igh level h, Min de r please co ponize thei mming via rogramm ramming Activatio	ut Off: Office View of the Vie	f. Maximur fe: 30V, Ma: ct. Remote il: Off. Maxi 2~30V or o or short. L. k current 10 lottage = 2, even 2 pul	n Voltage: kimum Sin: 0~0.6V o mum Volta pen. User occal: 2~30\ 000mA (Sh. 5V, Maxin ses 1ms.	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 mum hig/	: 10mA.  :cal: 2~30\ daximum Selogic.  :7V zener) h level inp	or open. iink Currer  put = 5V  el. nming via	oositive the
4.lout 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 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 READBACK 8232/485, Optional IEEE (*19)( 1. Vout programming accuracy (*1 2. lout programming accuracy (*1 3. Vout programming resolution 4. Jout programming resolution 4. Jout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6. lout readback accuracy (*15)	ATED FROM THE OUTPUT  In the state of the st		0~100%, 0~100%, 0~100%, 0~5V or 0 0~100%, 0~10	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use poly outponitor. Op pisable ana ogrammin isable PS	hm full sc hm full sc hm full sc r selectab	ale, user s ale, u	electable. electable. cy: +/-0.5' cy: +/-0	Accuracy Ac	and linear and linear and linear and linear and linear and linear and lout.  On. Outpife Maximusignal or or r. Remote t.t. 0~0.6V t.t. Remote 25V, Maxiigh level of the ming via programm and the ming v	ut Off: Of im Voltag dry conta corshort, e: 0~0.6V imum sinl input voltay between the comming via thrange: 0.00 in by communing via thrange: 0	f. Maximur ge: 30V, Ma; ct. Remote il: Off. Maxi 2~30V or or short. Lo k current 1: oltage = 2. leen 2 pul	n Voltage: kimum Sin : 0~0.6V o mum Volta pen. User ocal: 2~30 00mA (Shu 5V, Maxir ses 1ms.	k Current: r short. Lo gge: 30V, M seelectable / or open. unted by 2 mum high the front; ports or the or A/mSe unication 300	a 10mA.  Incal: 2~30\text{Maximum Se logic.}  In	or open. Sink Currer  put = 5V  el. nming via y the front  500	positive the panel.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) 5.GIGNALS AND CONTROLS (ISOLA 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 READBACK RS232/485, Optional IEEE (*19)(*1) 1.Vout programming accuracy (*1) 2. Lout programming resolution 4. lout programming resolution 4. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	ATED FROM THE OUTPUT  It is a second of the output of the		0~100%, 0~100%, 0~100%, 0~5V or 0 0~	0~5/10Ko 0~5/10Ko 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use pply outp onitor. Op isable ana ogrammin isable PS isable PS of ain pro material voltage cal v	hm full sc hm full sc hm full sc r selectab	ale, user s ale, u	electable. electable. cy: +/-0.5' cy: +/-0	Accuracy Ac	and linear and linear and linear and linear and linear and linear and lout.  On. Outpife Maximusignal or or r. Remote t.t. 0~0.6V t.t. Remote 25V, Maxiigh level of the ming via programm and the ming v	ut Off: Offirm Voltage dry conta c On. Loca or short, e: 0~0.6V imum sinl input vc lay between the com ning via thrange: 0.6 on by com 100	f. Maximur ge: 30V, Ma; ct. Remote il: Off. Maxi 230V or o or short. Lo k current 1: oltage = 2. reen 2 pul	n Voltage: kimum Sin: 0~0.6V o mum Volta pen. User ocal: 2~30 00mA (Shu 5V, Maxin ses 1ms.  off. n ports or nication po 9 V/mSec. he commu 200 0.005%	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2 mum hig/	at 10mA.  Incal: 2~30\incal 2~30\incal 2~30\incol 4  Incal: 2~30\incol 4	or open. iink Currer  put = 5V  el. nming via	oositive the





## **G**ENESYS<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	600-25.5
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)		A	1500 (*3)		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		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
6. 6.0			3-Phase, 2							100	150	200	500	100	300	000
1.Input voltage/freg. 3 phase, 3 w	rire + Ground (*4)		3-Phase, 4							ac)						
			3-Phase, 4	80V mode	ls: 342~5	28Vac, 47~	63Hz (Co	vers 380/4	00/415/4	40/460/48	0Vac)					
2. Maximum Input current at	3-Phase, 200V models:		52.5A @ 20													
100% load	3-Phase, 400V models:		27.6A @ 38													
3 D (T)	3-Phase, 480V models:		27.6A @ 38				-					-			-	-
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)		%	0.94 @ 200 89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)		A	Less than 1		- 21		- 21	) )	) )	) )	21	- 21	1 12	12	- 21	)2
6.AC line phase imbalance		%	< 5%													
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
			0.01% of ra				30	00	00	100	150	200	300	400	300	000
1.Max. Line regulation (*7)			_													
2.Max. Load regulation (*8)	(*O)		0.01% of ra		_	T	7.5	75	00	00	120	200	200	400	450	400
3.Ripple and noise (p-p, 20MHz) (*9)		mV mV	75 8	75 10	75 12	75 12	75 12	75 12	80 15	90	120 20	200 45	200 60	400 80	450 80	480 100
4.Ripple r.m.s. 5Hz~1MHz (*9) 5.Temperature coefficient		PPM/°C									20	43	00	00	00	100
6.Temperature stability			0.01% of ra								t line load	l & temn				
7. Warm-up drift			Less than (									i & temp.				
8.Remote sense compensation/wire (*10)		V	2	2	5	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
	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time:	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	utput volt	age to red	over with	in 0.5% of	its rated	output fo	r a load ch	ange 10~9	90% of rat	ed output	t current. (	Output se	t-point:
			10~100%,	Local sens	se. Less th	an 1mS, fo	r models	up to and	including	g 100V. 2m	S, for mod	els above	100V.		-	
12Start up delay		Sec	Less than 7	7 Sec												
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.05% of ra	ated outp	ut current											
2.Max. Load regulation (*13)			0.08% of ra	ated outp	ut current											
3.Ripple r.m.s. @ 10% rated voltage	ge B.W 5Hz~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	e. B.W 5Hz~1MHz. (TA 25°C)	mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
5.Temperature coefficient		PPM/°C	10V~100V							nutes warr						
3.Temperature coefficient				V 70PPM												
6.Temperature stability			0.01% of ra													
7. Warm-up drift			10V~100V													
·			150V~600	V: Less tha	ın +/-0.15	% of rated	output cu	irrent ove	r 30 minu	ites follow	ng power	on.				
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROMT	HE OUTPU	T)												
1.Vout voltage programming			0~100%, 0	/~5V or 0~	10V, user	selectable	. Accurac	y and line	arity: +/-0	).15% of rat	ed Vout.					
2.lout voltage programming (*15	5)		0~100%, 0	)~5V or 0~	10V, user	selectable	. Accuracy	y and line	arity: +/-0	.4% of rate	ed lout.					
3.Vout resistor programming			0~100%, 0													
4.lout resistor programming (*15	5)		0~100%, 0							ity: +/-0.5	% of rated	lout.				
5.Output voltage monitor (*23)			0~5V or 0~													
6.Output current monitor (*15) (*	(23)		0~5V or 0~	~10V, user	selectabl	e. Accurac	y: +/-0.5%	o. of rated	lout.							
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPUT	Γ)														
1. Power supply OK #1 signal			Power sup	ply outpu	t monitor	. Open col	lector, Ou	tput On: (	n Outni		M	11.1.			Current.	10mA
2. CV/CC signal			CV/CC Mor			CC 1			Jii. Outpt	ut 011: 011.	Maximum	Voltage:	30V, Maxi	mum Sink	Current:	
3. LOCAL/REMOTE Analog contro							e: On. CV	mode: Off	. Maximu	m Voltage	: 30V, Max	imum Sin	k Current:	10mA.		
4. LOCAL/REMOTE Analog signal	l .					mming co	e: On. CV ontrol by e	mode: Off	. Maximu ignal or c	m Voltage dry contact	: 30V, Max :. Remote:	imum Sin 0~0.6V o	k Current: r short. Lo	10mA. cal: 2~30V	or open.	
	l		analog pro	ogramming	g control i	mming co	e: On. CV ontrol by e gnal. Oper	mode: Off electrical s n collector	. Maximu ignal or c . Remote:	m Voltage Iry contact On. Local:	: 30V, Max : Remote: Off. Maxin	imum Sin 0~0.6V o num Volta	k Current: r short. Lo age: 30V, N	10mA. cal: 2~30V laximum S	or open.	
5. ENABLE/DISABLE Signal	l		analog pro Enable/Dis	ogramming sable PS o	g control i utput by	nmming co monitor sig electrical s	e: On. CV ontrol by e gnal. Oper ignal or d	mode: Off electrical s n collector ry contac	. Maximu ignal or c . Remote: t. 0~0.6V	m Voltage Iry contact On. Local: or short, 2	: 30V, Max :. Remote: Off. Maxin ~30V or op	imum Sin 0~0.6V o num Volta oen. User	k Current: r short. Lo age: 30V, N selectable	10mA. cal: 2~30V laximum S	or open.	
5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control	l		analog pro Enable/Dis Enable/Dis	ogramming sable PS o sable PS o	g control i utput by o utput by o	mming co monitor sig electrical s electrical s	e: On. CV ontrol by e gnal. Oper ignal or d ignal or d	mode: Off electrical s n collector ry contact ry contact	. Maximu ignal or c . Remote: t. 0~0.6V t. Remote	m Voltage dry contact On. Local: or short, 2 :: 0~0.6V o	: 30V, Max :. Remote: Off. Maxin ~30V or op r short. Lo	imum Sin 0~0.6V o num Volta pen. User cal: 2~30\	k Current: r short. Lo age: 30V, N selectable / or open.	10mA. cal: 2~30V Maximum S e logic.	or open.	
5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals			analog pro Enable/Dis Enable/Dis Two open	ogramming sable PS of sable PS of drain prog	g control i utput by o utput by o grammab	mming co monitor sig electrical s electrical s le signals.	e: On. CV ontrol by e gnal. Oper ignal or d ignal or d Maximum	mode: Off electrical s n collector ry contact ry contact n voltage 2	. Maximu ignal or c . Remote: t. 0~0.6V t. Remote 25V, Maxi	m Voltage dry contact On. Local: or short, 2 :: 0~0.6V o mum sink	: 30V, Max : Remote: Off. Maxin ~30V or op r short. Lo current 10	imum Sin 0~0.6V o num Volta pen. User cal: 2~30\ 0mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	or open. ink Currer	nt: 10mA.
5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control			analog pro Enable/Dis Enable/Dis Two open Maximum	ogramming sable PS of sable PS of drain prog low level	g control i utput by o utput by o grammab input volt	mming comonitor signification signification signification signals.  The signals is a signification s	e: On. CV I ontrol by e gnal. Oper ignal or d ignal or d Maximum /,Minimur	mode: Off electrical s n collector ry contact ry contact n voltage 2 n high lev	. Maximu ignal or c . Remote: t. 0~0.6V t. Remote 25V, Maxi rel input v	m Voltage dry contact On. Local: or short, 2 :: 0~0.6V o mum sink roltage = 2	: 30V, Max : Remote: Off. Maxin ~30V or op r short. Lo current 10	imum Sin 0~0.6V o num Volta pen. User cal: 2~30\ 0mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	or open. ink Currer	nt: 10mA.
5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals			analog pro Enable/Dis Enable/Dis Two open	sable PS of sable PS of drain prog low level ninimum.	g control i utput by o utput by o grammab input volt Tr,Tf=1us	mming comming committer significant significant signals. It is signals. It is significant	e: On. CV ontrol by e gnal. Oper ignal or d ignal or d Maximum /, Minimur . Min dela	mode: Off electrical s n collector ry contact ry contact n voltage 2 n high lev y between	. Maximu ignal or c . Remote: t. 0~0.6V t. Remote 25V, Maxi rel input v	m Voltage dry contact On. Local: or short, 2 :: 0~0.6V o mum sink roltage = 2	: 30V, Max : Remote: Off. Maxin ~30V or op r short. Lo current 10	imum Sin 0~0.6V o num Volta pen. User cal: 2~30\ 0mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	or open. ink Currer	nt: 10mA.
5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign			analog pro Enable/Dis Enable/Dis Two open Maximum tw=10us m	sable PS of sable PS of drain prog low level ninimum.	g control i utput by o utput by o grammab input volt Tr,Tf=1us i e: 0~0.6V/	mmming commonitor signetectrical selectrical selectric	e: On. CV ontrol by e gnal. Oper ignal or d ignal or d Maximum /,Minimur Min dela lry contac	mode: Off electrical s n collector ry contact ry contact n voltage 2 n high lev y between	. Maximu ignal or c . Remote: t. 0~0.6V t. Remote 25V, Maxi rel input v	m Voltage dry contact On. Local: or short, 2 :: 0~0.6V o mum sink roltage = 2	: 30V, Max : Remote: Off. Maxin ~30V or op r short. Lo current 10	imum Sin 0~0.6V o num Volta pen. User cal: 2~30\ 0mA (Shu	k Current: r short. Lo age: 30V, N selectable / or open. unted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	or open. ink Currer	nt: 10mA.
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### GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection			Output s User pres	hut-down setable. Re	when po	wer supply input rec	y changes ycle in aut	mode from	m CV or Po de, by Pov	ower Limit wer Switch	to CC mo	de or fron UT buttor	n CC or Po n, by rear p	wer Limit to canel or by	o CV mod commun	le. ication.
2.Over-voltage protection (OVP)			Output s	hut-down						OUTPUT b						
3.Over -voltage programming rar		V		1~24			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	5~661.5
4. Over-voltage programming acc				rated outp												
5.Output under voltage limit (UVI	L)		Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port.													
6.Over temperature protection	1)		Shuts down the output. Auto recovery by autostart mode.  Prevents adjustment of Vout below limit.													
7. Output under voltage limit (UV	L)								Off 4			lisia Da				-44
8. Output under voltage protection	on (UVP)		mode, by	Power Sv	nt of vou vitch, by (	DUTPUT bu	utton, by r	ear panel	or by com	g under vol imunicatio	n.	aition. Kes	et by AC I	nput recyc	ie in autos	start
FRONT PANEL																
1.Control functions				options w												
						ual adjust										
				/UVP mar												
							oldback, (									
							of LAN,IEE	E,RS232,R	S485,USB	or Option	al commu	nication i	nterface.			
				N/OFF. Fr			(0 10									
										communic						
			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming													
2.Display			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.													
z.Dispilay			Vout: 4 digits, accuracy: 0.05% of rated output current ±/-1 count.													
3.Front Panel Buttons Indications			lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.  OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.													
45 (0 10) 1 1 1 1			Voltage.	Current, P	ower, CV.	CC. CP. Ext	ternal Volt	age, Exter	nal Curre	nt. Addres:	s, LFP, Auto	ostart, Saf	etstart, Fo	oldback V/	I. Remote	
4. Front Panel Display Indications		Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback VII, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.														
<b>ENVIRONMENTAL CONDITIONS</b>																
1.Operating temperature			0~50°C, 1	100% load												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90%	RH (no coi	ndensatio	n).										
4.Storage humidity		%	10~95%	RH (no cor	ndensatio	n).										
5.Altitude (*17)							rrent dera	ting 2%/10	00m or Ta	derating 1	°C/100m a	above 200	0m. Non o	perating:	40000ft (1	12000m).
MECHANICAL																
1.Cooling			Forced ai	r cooling	by interna	al fans. Air	flow direc	tion: from	Front par	nel to pow	er supply i	rear				
2.Weight	GSP 10kW	kg	Less than	15.5kg.												
3.Dimensions (WxHxD)	GSP 10kW	mm					s and busb			relief) (Ref	er to Outlir	ne drawing	g).			
2.Weight	GSP 15kW	kg	Less than	23.5kg.												
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, I W: 423, I	H: 132.5, [ H: 132.5, [	): 441.5 (V ): 640 (Inc	Vithout bu luding bu	sbars and sbars and	busbars co	over), over, and :	strain relief	(Refer to	Outline d	lrawing).			
4.Vibration			MIL-8100	i, method	514.6, Pro	cedure I, t	test condit	ion Annex	C - 2.1.3.	1						
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.								
SAFETY/EMC																
	Cofotu		111 61010	1 (()	2 No 1 610	10 1 IECL	1010 1 EN	II 61010 1								
1.Applicable standards:  1.1. Interface classification	Safety		Vout≤50	/ Models:	Output, J	1, J2, J3, J4		J8 (sense)	& J9 (com	nmunicatio						
1.1. Interface classification							-			J4, J5, J6, J					-	
1.2 Withstand voltage			Input - G 60V≤Vol Output & Output & 100V <vo Output &amp; Output &amp; Input - G</vo 	iround: 28 ut≤100V M ut≤100V M ut≤100V M ut≤600V ut≤600V ut≤600V ut≤600V ut≤600V ut≤600V ut≤600V ut≤600V ut≤600V	335VDC Models: li se) - J1, J se) - Grou Models: se) - J1, J se) - Grou 335VDC	1min. nput – Ou l2, J3, J4, und: 1500' Input – O l2, J3, J4, und: 2500 1min.	tput & J8 J5, J6, J7 VDC 1mir utput & J8 J5, J6, J7 VDC 1mir	(sense), c 7 & J9 (co n, Input - ( 8 (sense), 7 & J9 (co	J1, J2, J3 mmunica Ground: 2 J1, J2, J3 mmunica	5, J6, J7 & 1, J4, J5, J ation optio 2835VDC 3, J4, J5, c ation optio	6, J7 & J9 ns): 850V 1min. J6, J7 and	9 (commu /DC 1min	inication	options):	4242VDC	1min,
1.3 Insulation resistance			GSP10kW	//15kW: 60	Mohm a	t 25°C, 709	6RH. Outp	ut to Grou	und 500\	/DC						
2.Conducted emmision			IEC/EN61	204-3 Ind	ustrial en	vironment	, Annex H	table H.1 ,	FCC Part	15-A, VCCI	-A.					
3.Radiated emission			IEC/EN61	204-3 Ind	ustrial en	vironment	, Annex H	table H.3	and H4, F	CC Part 15	-A, VCCI-A					
4. EMC compliance	EMC(*18)		IEC/EN61	204-3 Ind	ustrial en	vironment	:									

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

- \*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 10kW- Derate 10A/1°C above 40°C. GSP 15kW- Derate 15A/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 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 400V 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 Remore Sense.

  9: For 10V~150V models: Measured with JETIA RC-9131C (1:1) probe. For 200~600V models: Measured with 100:1 probe.

  110: The maximum voltage on the power supply terminals must not exceed the rated voltage.

  111: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.

  112: From 90% to 10% of Rated Output Voltage.

  113: For load voltage change, equal to the unit voltage rating, constant input voltage.

  114: 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.

  115: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

  116: Measured at the sensing point.

  117: For 10V model Tal derating 2°C/100m."

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

  119: Max. ambient temperature for using IEEE is 40°C.

  200: GSP15kW For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 900A up to 30°C.

  120: GSP15kW For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 1350A up to 30°C.

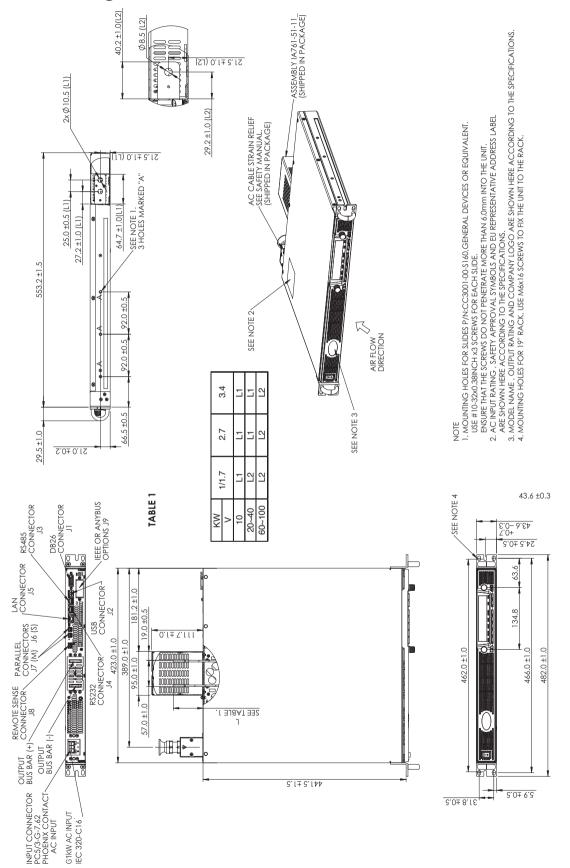
- \*22: Typ. at Ta=25°C, rated output power. \*23: For steady state only.



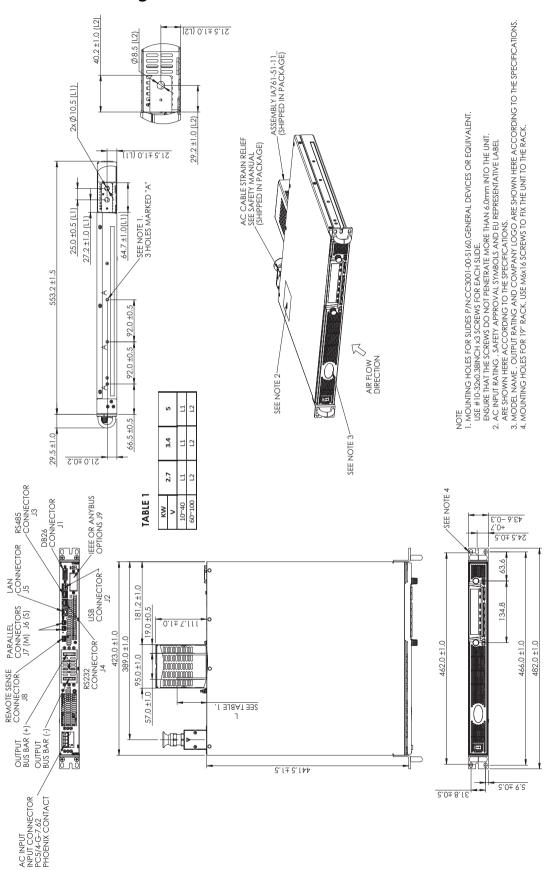




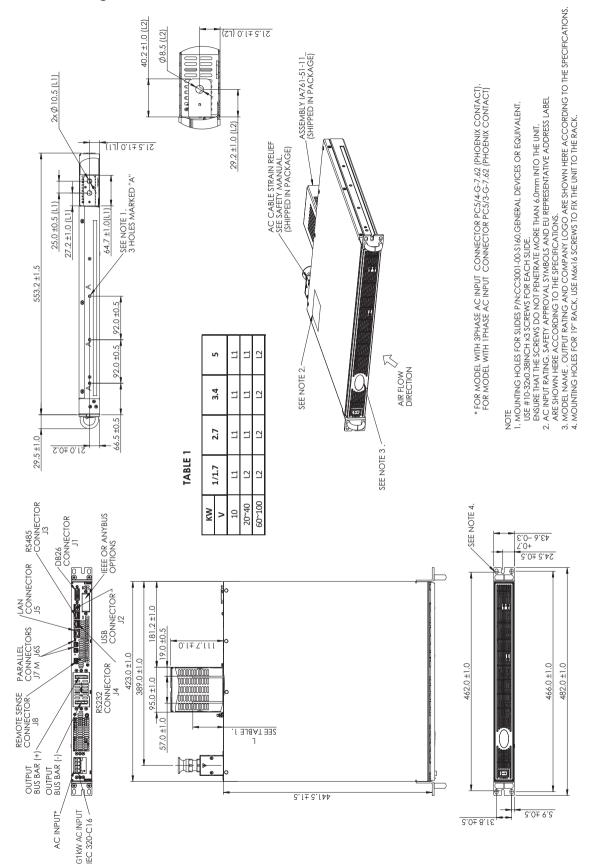
# Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



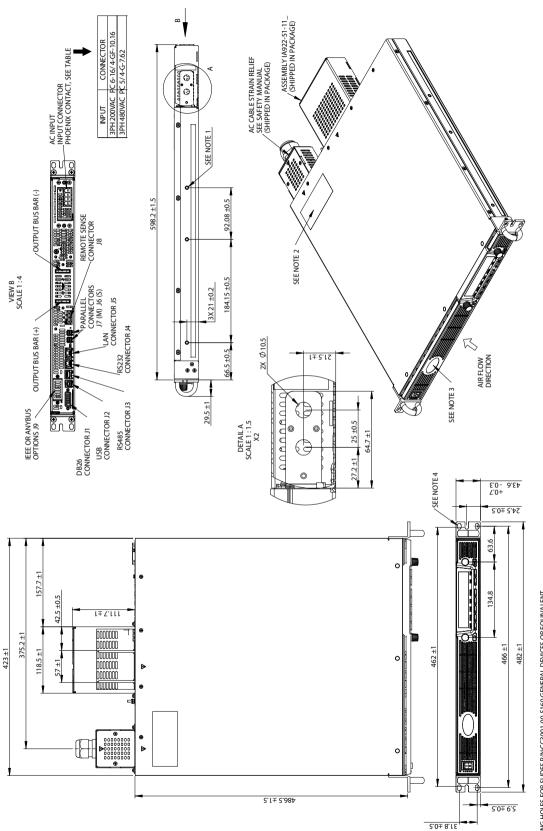
## Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



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



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



G+7.5KW 20V~100V

. MOUNTING HOLES FOR SLIDES P/NCG3001-00-S160/GENERAL DEVICES OR EQUIVALENT.

USE HOLA THE SCREWS FOR MOT PREVERTER WORR THAN 6 form INTO THE UNIT.

EN INDITIONALLY 3.5CREWS FOR MOT PREVERTER WORR THAN 6 form INTO THE UNIT.

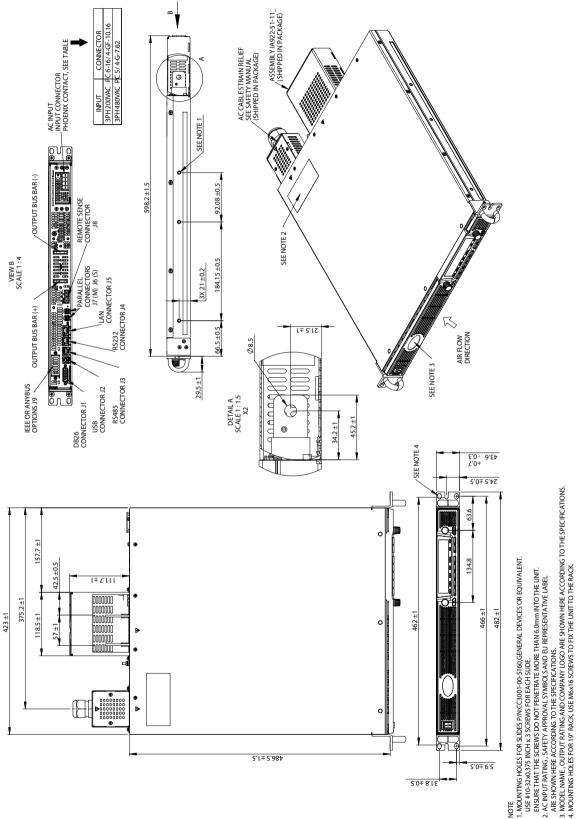
EN INDITIONAL SAFETY APPROVAL SYMBOLS AND EUREPRESENTATIVE LARE.

ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.

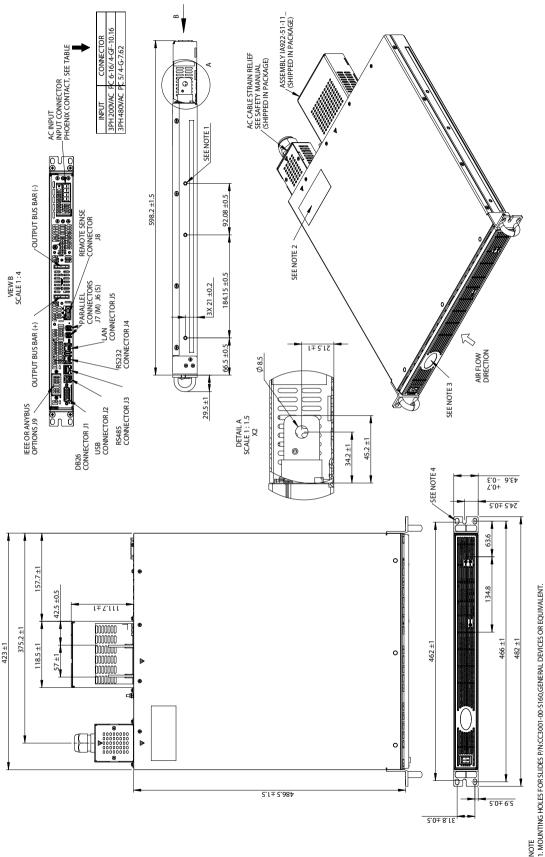
MODEL NAME, OUTPUT RATING AND COMPANY LOGO A RE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.

MODEL NAME, OUTPUT RATING SARCE, USE MASKIG SCREWS TO BIT THE UNIT TO THE RACK.

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



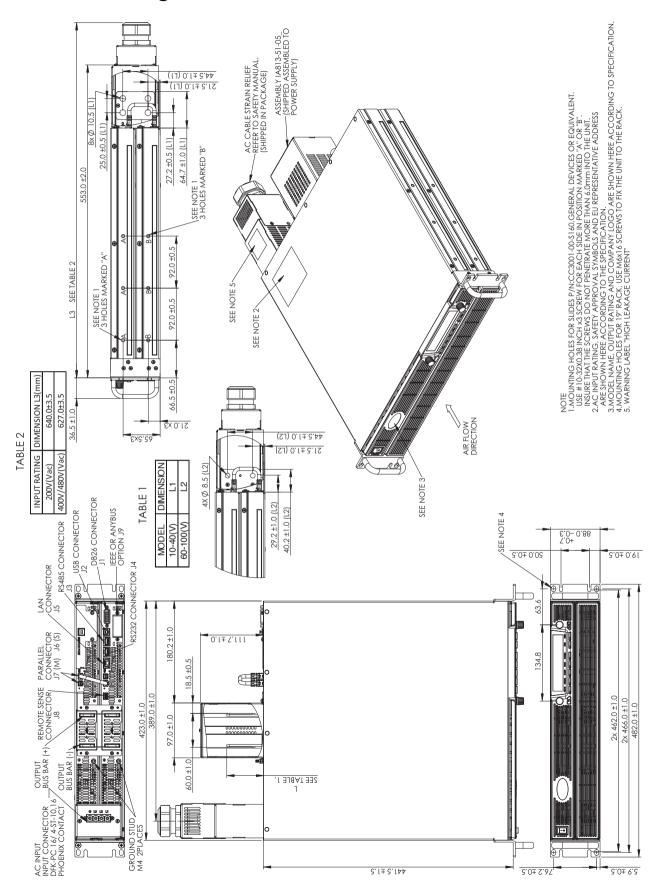
# Outline Drawing GENESYS™ GB7.5kW ATE Version



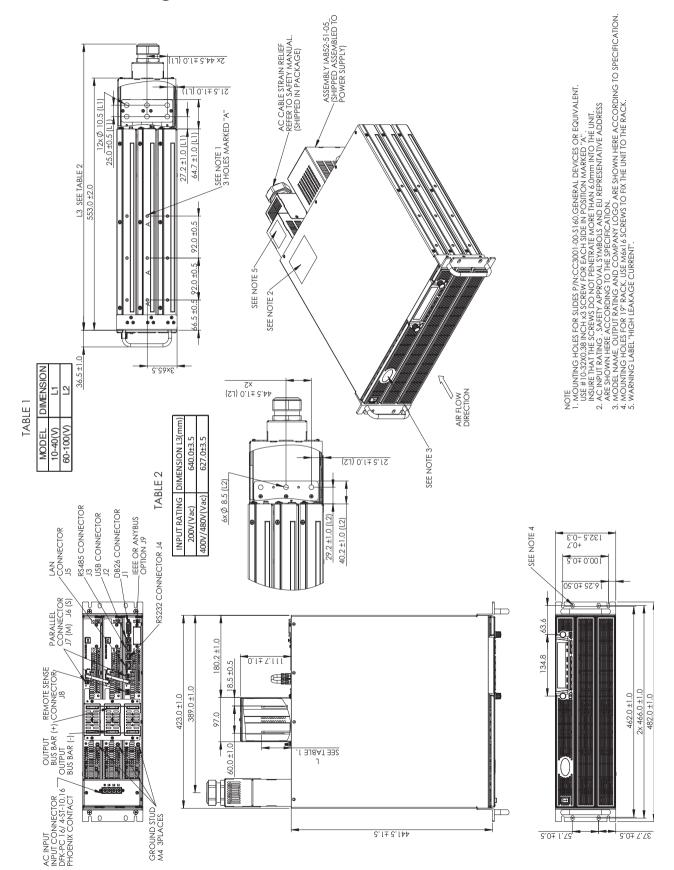
G+7.5KW BLANK 150V~1500V

USE #10-32x0.375 INCH x 3 SCREWS FOR EACH SLIDE.
ENSURE THAT THE SCREWS DO NOT PENETRATE MORE THAN 6.0mm INTO THE UNIT.
2. ACTINDUR ARING, SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE LABEL.
ARE SHOWN HERE ACCORDING TO THE SPECHCATIONS.
3. MODEL NAME, OUTPUT RATING AND COMPANY LOGGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.
3. MODEL NAME, OUTPUT RATING AND COMPANY LOGGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.
3. MODUNTING HOLES FOR 19" PACK, USE M6x:16 SCREWS TO FIX THE UNIT TO THE RACK.

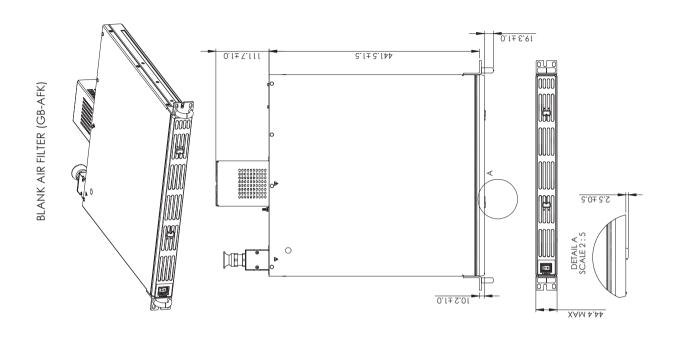
## Outline Drawing GENESYS™ GSP10kW

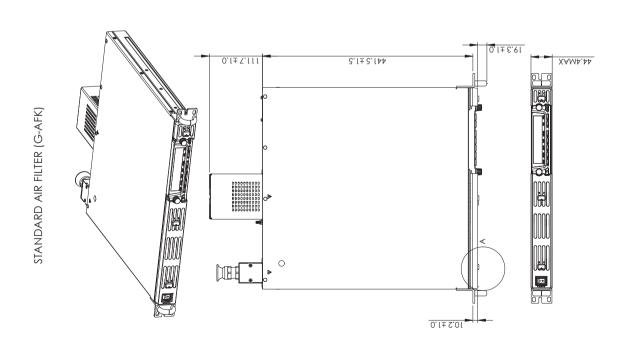


## Outline Drawing GENESYS™ GSP15kW



# Outline Drawing **G**ENESYS<sup>™</sup> Air Filter Kit



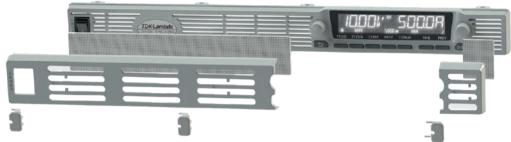


## Front Panel Air Filter Assembly

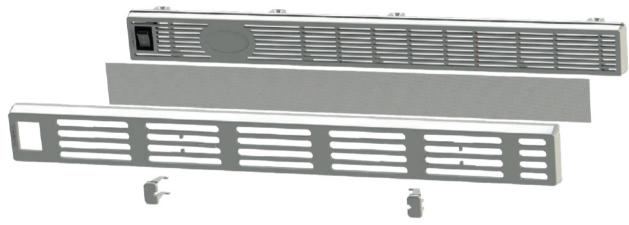
Front panel dust cover is available for dusty air environment applications

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
- 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/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)







#### NORTH AMERICA

TDK-Lambda Americas Inc 405 Essex Rd. Neptune, NJ 07753 Tel: +1-732-922-9300 Fax: +1-732-922-1441 E-mail: sales@us.tdk-lambda.com www.us.lambda.tdk.com

#### UK

TDK-Lambda UK Ltd. Kingsley Avenue Ilfracombe, Devon EX 34 8ES, United Kingdom Tel: +44-1271-856666 Fax: +44-1271-864894 E-mail: info@uk.tdk-lambda.com www.emea.lambda.tdk.com/uk

#### FRANCE

TDK-Lambda France SAS 3 Avenue du Canada. Parc Technopolis - Bâtiment Sigma, 91940 Les Ulis - France CS 41077 Tel: +33 1 60 12 71 65 Fax: +33 1 60 12 71 66 E-mail: france@fr.tdk-lambda.com www.emea.lambda.tdk.com/fr

#### GERMANY

TDK-Lambda Germany GmbH Karl-Bold-Str.40, D-77855 Achern, Germany Tel: +49-7841-666-0 Fax: +49-7841-500-0 E-mail: info.germany@de.tdk-lambda.com www.emea.lambda.tdk.com/de

#### **AUSTRIA**

TDK-Lambda Germany GmbH Austria Sales Office Aredstrasse 22, 2544 Leobersdorf, Austria Tel: +43-2256-65584 Fax: +43-2256-64512 E-mail: info@at.tdk-lambda.com www.emea.lambda.tdk.com/at

#### **ITALY**

TDK-Lambda France Sas Succursale Italiana Via Giacomo Matteotti 62, 20092 Cinisello Balsamo (MI), Italia Tel: +39-02-6129-3863 Fax: +39-02-6129-0900 E-mail: info.italia@it.tdk-lambda.com www.emea.lambda.tdk.com/it

#### ISRAEL

TDK-Lambda Ltd. Sales Office: Alexander Yanai 1, Petah Tikva, 4927701, ISRAEL Tel: +972-3-9024-333 Fax: +972-3-9024-777 Plant: 56 Haharoshet St., Karmiel Industrial Zone 2165158, Israel Tel: +972-4-9887-491 Fax: +972- 4-9583-071 www.emea.lambda.tdk.com/il E-mail: info@tdk-lambda.co.il

#### Switzerland

TDK-Lambda Germany GmbH Switzerland Sales Office, Eichtalstr. 55 8634 Hombrechtikon - Switzerland Tel: +41 44 850 53 53 E-mail: info@ch.tdk-lambda.com www.emea.lambda.tdk.com/ch

#### Denmark

TDK-Lambda Nordic Haderslevvej 36B, DK-6000 Kolding, Denmark TEL: +45-8853-8086 E-mail: info@dk.tdk-lambda.com www.emea.lambda.tdk.com/dk

#### JAPAN

**TDK-Lambda Corporation** Nihonbashi Takashimaya Mitsui Bldg. 2-5-1 Nihonbashi, Chuo-ku, Tokyo 103-6128, JAPAN TEL: +81-3-6778-1113 FAX: +81-3-6778-1160 www.jp.lambda.tdk.com

#### CHINA

TDK-Lambda (China) Electronics Co. Ltd, Shanghai Office 5th Floor Kehui Tower, 1188 Qinzhou Road (North), Xuhui District Shanghai 200233, China Tel: +86-21-6485-0777 Fax: +86-21-6485-0666 www.lambda.tdk.com.cn

Beijing Branch of TDK-Lambda (China) Electronic Co. Ltd. Room 12B11-12B12, Unit 7 Dacheng square, No.28 Xuanwumenxi Street, Xuanwu District Beijing, 100053, CHINA Tel: +86-10-6310-4872 Fax: +86-10-6310-4874 www.lambda.tdk.com.cn

Shenzhen Branch of TDK-Lambda (China) Electronics Co.Ltd. 69/F, Ping An Finance Centre, 5033 Yitian Road, Futian District, Shenzhen, China Tel: +86-755-83588261 Fax: +86-755-83588260 www.lambda.tdk.com.cn

#### KOREA

TDK-Lambda Corporation Korea Branch Seocho-Dong,12F. Songnam Bldg. 273, Gangnam Daero, Seocho-Gu, Seoul 06730, Republic of Korea Tel: +82-2-3473-7051 Fax: +82-2-3472-9137 www.lambda.tdk.co.kr

#### **SINGAPORE**

TDK-Lambda Singapore Pte.Ltd. Blk 1008 Toa Payoh North # 07-01/03 Singapore 318996 Tel: +65-6251-7211 Fax: +65-6250-9171 www.sg.lambda.tdk.com

#### **INDIA**

TDK India Private Limited. Power Supply Division #87, The Centrum, 4th Floor, Infantry Road, Bengaluru, Karnataka, -560 001, INDIA Tel: +91-80-40390660 Fax: +91-80-40390603

#### MALAYSIA

TDK-Lambda Malaysia Sdn. Bhd. (Nilai Office) c/o TDK (Malaysia) Sdn. Bhd., Lot 709, Nilai Industrial Estate 71800 Nilai, Negeri Sembilan, MALAYSIA TEL: +60-6-797-8800 Fax: +60-6-797-8966

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