



GENESYS 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





Trusted • Innovative • Reliable



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 (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- · Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- · Fan speed controlled by ambient temperature and load
- Certified LabWindows™/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

GENESYS[™] power supplies have been designed to meet the demands of a wide variety of applications.

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

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

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

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

G1kW-7.5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



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

G7.5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (L) 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- Remote/Local Output Voltage Sense Connections.
 Plug connector: PHOENIX CONTACT GIC 2,5 HCV/ 3-ST-7,62 1745632
- 7. Output Connections: Rugged busbars (shown) for models up to and including 1500V Output;
- 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



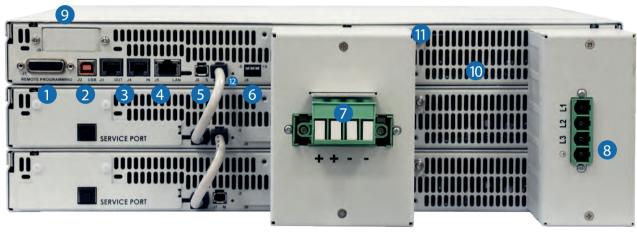
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (L) 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto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



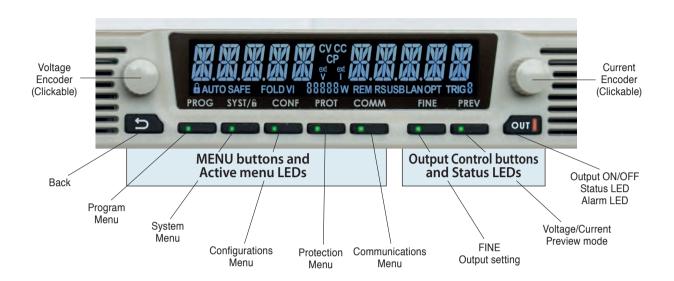
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

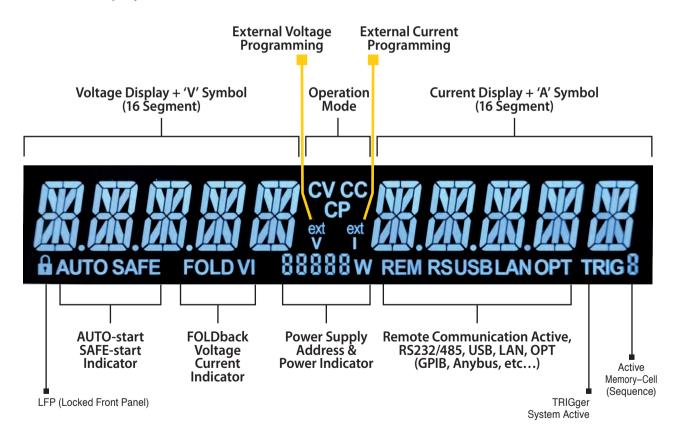


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. 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).
- 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.

GENESYS[™] 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

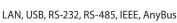
Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

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.





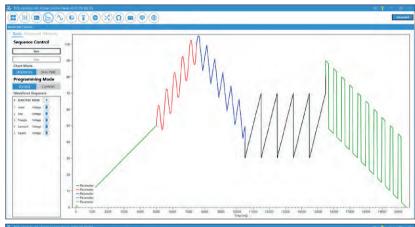


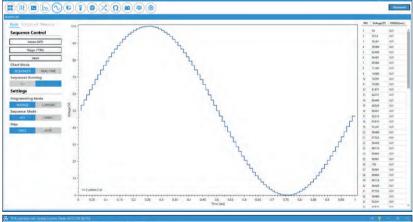
Graphical User Interface

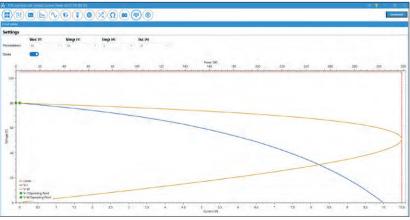
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 1. 1. Control and monitor DC Programmable Power Supply Series (GENESYS+, GENESYS and Z+).
- 2. 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. 7. Multi-Model Monitoring and Control Panel.
- 8. 8. Individual and Global commands control.

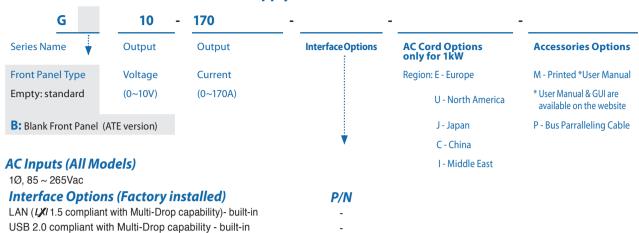
GUI Waveform Profile Generator







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



IEEE

MDBS

ECAT

IS420

Models 1kW

Modbus-TCP

EtherCAT

RS-232/RS-485 - built-in

(4mA-20mA with 600V isolation)

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

Isolated Analog Current Program/Monitor Interface

Models TRV					
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		

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

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

G 10 340 **AC Input Options** Series Name Output Output **Interface Options** Front Panel Type Voltage Current 1P208 (Single Phase 170~265VAC) Empty: standard (0~10V) (0~340A) 3P208 (Three Phase 170~265VAC) **B:** Blank Front Panel (ATE version) 3P400 (Three Phase 342~460VAC) 3P480 (Three Phase 342~528VAC) P/N **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

Accessories Options

- M Printed *User Manual
 * User Manual & GUI are
 available on the website
- P Bus Parralleling Cable

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

Models G2.7kW

Modbus-TCP

EtherCAT

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

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

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.

IEEE

MDBS

ECAT

IS420

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

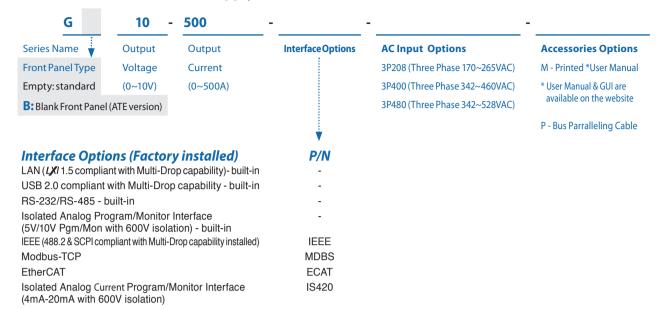
3. Bus Paralleling cable

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

4. User Manual

1. OSCI Mariani				
	Printed User Manual	G/M		

How to order G5kW - Power Supply Identification / Accessories



Models 5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Model	٧
G10-500	0~10V	0~500	5000	G100-50	0
G20-250	0~20V	0~250	5000	G150-34	0
G30-170	0~30V	0~170	5100	G200-25	0
G40-125	0~40V	0~125	5000	G300-17	0
G50-100	0~50V	0~100	5000	G400-13	0
G60-85	0~60V	0~85	5100	G500-10	0
G80-65	0~80V	0~65	5200	G600-8.5	0

Model	Voltage (VDC)	Current (A)	Power (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™** 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

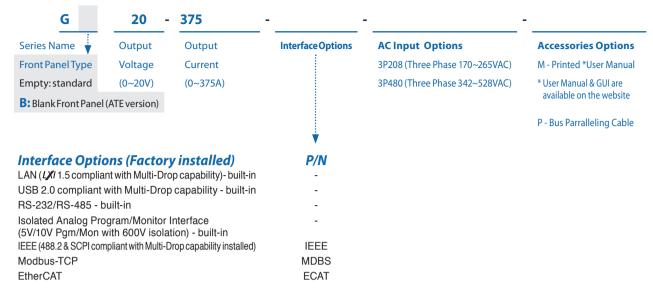
Printed User Manual	G/M

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 **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

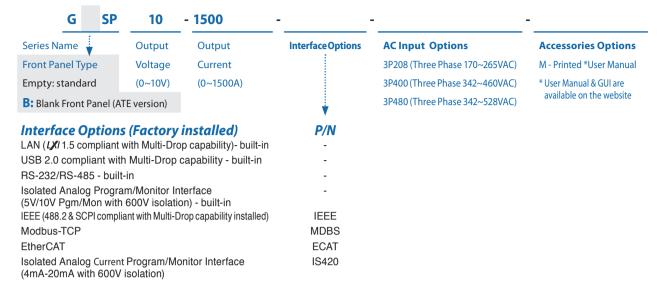
4. User Manual

Printed User Manual	G/M

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

GENESYS™ 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

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

Models 1.5kW

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

Voltage (V)	Current (A)	Power (W)
0~80V	0~19	1520
0~100V	0~15	1500
0~150V	0~10	1500
0~300V	0~5	1500
0~600V	0~2.6	1560
	0~80V 0~100V 0~150V 0~300V	0~80V 0~19 0~100V 0~15 0~150V 0~10 0~300V 0~5

GENESYS™ 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)			85~265Vac, c	ontinuous, 47	~63Hz, Single	Phase						
2. Maximum Input current at 100	% load (100/200)	Α	12.5/6.5									,
3.Power Factor (Typ)			0.99 @ 100Va		Vac, rated out		07/00	07/00	00 (00	00/00	00/00	00/00
4.Efficiency at 100 Vac/200Vac, ra 5.Inrush current (*5)	itea output (* 17)	% A	86/88 Less than 50/	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
				1								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)				d output volta								
2.Max. Load regulation (*7)				d output volta	T .						1	1
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				owing 30 min						
6.Temperature stability						lowing 30 min).		
7. Warm-up drift						2mV over 30 n					1	
8.Remote sense compensation/w	/ire (*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
10.Down-prog.response time:	Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.50WII prog.response time.	No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time		mS									urrent. Output	t set-point:
					uldii iM3, f0f	models up to	ariu iriciuding	1 100V. ZMS, TO	i illoneis apo	ve IUUV.		
12.Start up delay		Sec	Less than 6 Se	:L		20.	me tunical r-+	od output n	vor			
13.Hold-up time		mS				201	ııs typical, rat	ed output pov	vei			
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 curr	ent. +2mA							
2.Max. Load regulation (*9)			0.02% of rate	d output curr	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
F.T		DD14/06	10V~100V	100PPM/°C fr	om rated outp	ut current, fol	lowing 30 mir	nutes warm-up).	•		•
5.Temperature coefficient		PPM/°C	150V~600V	70PPM/°C fro	m rated outpu	it current, follo	owing 30 min	ıtes warm-up.				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	owing 30 min	utes warm-up	. Constant line	e, load & temp	erature.		
			10V~100V mo	del: Less thar	n +/-0.25% of r	ated output co	urrent over 30	minutes follo	wing power o	n.		
7. Warm-up drift						utput current						
ANALOG PROGRAMMING AND N	MONITORING (ISOLATEL	1										
1.Vout voltage programming						Accuracy and	-					
2.lout voltage programming (*14	1)					Accuracy and						
3.Vout resistor programming						ctable. Accura	-					
4.lout resistor programming (*14	1)					ctable. Accura	-	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor						: +/-0.5% of ra						
6.Output current monitor (*14)			0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOL	ATED FROM THE OUTPU	T)										
1. Power supply OK #1 signal			Power supply	output moni	tor. Open coll	ector. Output (On: On. Outpu	it Off: Off. Max	imum Voltage	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal						: On. CV mode						
3. LOCAL/REMOTE Analog contro	ı											
4. LOCAL/REMOTE Analog signal										or short. Loca		en.
5. ENABLE/DISABLE signal			3 91	5		nal. Open colle					al: 2~30V or op	
6. INTERLOCK (ILC) control			Enable/Disah	le PS output l		nal. Open colle	ctor. Remote:	On. Local: Off.	Maximum Vol	tage: 30V, Ma	al: 2~30V or op ximum Sink Cu	
					oy electrical si	gnal or dry cor	ctor. Remote: ntact. 0~0.6V	On. Local: Off. or short, 2~30\	Maximum Vol Vor open. Use	tage: 30V, Ma er selectable l	al: 2~30V or op ximum Sink Cu	
7. Programmed signals		_	Enable/Disab	le PS output l	oy electrical si oy electrical si	gnal or dry cor gnal or dry cor	ctor. Remote: ntact. 0~0.6V ntact. Remote	On. Local: Off. or short, 2~30\ : 0~0.6V or sho	Maximum Vol / or open. Use ort. Local: 2~3	tage: 30V, Ma er selectable l 0V or open.	al: 2~30V or op ximum Sink Cu ogic.	
7. Programmed signals	1-		Enable/Disab Two open dra	le PS output l ain programm	oy electrical si oy electrical si able signals. N	gnal or dry cor gnal or dry cor Naximum volta	ector. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi	On. Local: Off. or short, 2~30\ : 0~0.6V or sho mum sink curr	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI	tage: 30V, Ma er selectable l 0V or open. nunted by 27	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	nals		Enable/Disab Two open dra Maximum lo	ole PS output l nin programm ow level inpu	by electrical signals. Notes that the signals is not the signals is not the signals in the signals in the signals is not the signals in the signal in the signals in the signal in th	gnal or dry cor gnal or dry cor Naximum volta	ector. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxim n high level	On. Local: Off. or short, 2~30\ : 0~0.6V or sho mum sink curr input voltage	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic.	rrent: 10mA.
	nals		Enable/Disab Two open dra Maximum lo edge trigge	ole PS output l nin programm ow level inpu r: tw=10us n	by electrical signals. Notes that the signals is not the signals is not the signals in the signals in the signals is not the signals in the signal in the signals in the signal in th	gnal or dry cor gnal or dry cor Maximum volta D.8V,Minimur f=1us Maxim	ector. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxim n high level	On. Local: Off. or short, 2~30\ : 0~0.6V or sho mum sink curr input voltage	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
8. TRIGGER IN / TRIGGER OUT sign	nals		Enable/Disab Two open dra Maximum lo edge trigge By electrical	ile PS output l ain programm ow level inpu r: tw=10us n Voltage: 0~0.6	by electrical single by electrical single electrical single electrica	gnal or dry cor gnal or dry cor Maximum volta D.8V,Minimur f=1us Maxim	ector. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxim n high level	On. Local: Off. or short, 2~30\ : 0~0.6V or sho mum sink curr input voltage	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	nals		Enable/Disab Two open dra Maximum lo edge trigge By electrical	ile PS output l ain programm ow level inpu r: tw=10us n Voltage: 0~0.6	by electrical sictly electrical ele	gnal or dry cor gnal or dry cor Maximum volta D.8V,Minimur f=1us Maxim	ector. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxim n high level	On. Local: Off. or short, 2~30\ : 0~0.6V or sho mum sink curr input voltage	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	nals		Enable/Disab Two open dra Maximum Id edge trigge By electrical V 4~5V=OK, 0V	ole PS output I ain programm ow level inpu r: tw=10us n Voltage: 0~0.6 (500ohm imp	oy electrical si oy electrical si lable signals. A ut voltage = (ninimum. Tr,T 5V/2~30V or dr pedance)=Fail	gnal or dry cor gnal or dry cor Maximum volta J.8V, Minimur f=1us Maxim y contact.	ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level um, Min del	On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage ay between 2	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	nals		Enable/Disab Two open dra Maximum kedge trigge By electrical \ 4~5V=OK, 0V	ole PS output I ain programm ow level inpu r: tw=10us n Voltage: 0~0.6 ((5000hm imp	oy electrical si oy electrical si lable signals. N ut voltage = (ninimum. Tr,T sV/2~30V or dr pedance)=Fail	gnal or dry cor gnal or dry cor Maximum volta 0.8V, Minimur f=1us Maxim y contact.	ctor. Remote: ntact. 0~0.6V intact. Remote age 25V, Maxi n high level uum, Min del	On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltage ay between 2	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
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	nals		Enable/Disab Two open dra Maximum kedge trigge By electrical \u00e4 4~5V=OK, 0V	ole PS output I lain programm ow level inpu r: tw=10us n Voltage: 0~0.6 (500ohm imp	oy electrical si oy electrical si able signals. A at voltage = 0 ninimum. Tr,T sV/2~30V or dr pedance)=Fail units in Master ts. Refer to ins	gnal or dry cor gnal or dry cor Maximum volta D.8V,Minimur f=1us Maxim y contact. //Slave mode. I truction manu	ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level num, Min del	On. Local: Off. or short, 2~30\) : 0~0.6V or sho mum sink curr input voltage ay between 2	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max 2 pulses 1ms	tage: 30V, Ma er selectable l 0V or open. nunted by 27 ^v timum high	al: 2~30V or op ximum Sink Cu ogic. V zener)	rrent: 10mA.
8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2. signal 11. Parallel operation 12. Series operation 13. Daisy chain	nals		Enable/Disab Two open dra Maximum kedge trigge By electrical \(^4 \sim 5V = OK, 0V\) Possible. Up t Possible. Two Power suppli	ole PS output lain programm ow level inpur: tw=10us n voltage: 0~0.6 (500ohm imp	oy electrical si oy electrical si able signals. A at voltage = 0 ninimum. Tr,T sV/2~30V or dr pedance)=Fail units in Master ts. Refer to insi nected in Dais	gnal or dry cor gnal or dry cor flaximum volta 0.8V,Minimur f=1us Maxim y contact. //Slave mode. I truction manu y chain to syno	ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi n high level num, Min del Refer to instru al.	On. Local: Off. or short, 2~30\times 0~0.6\times or short num sink curr input voltage ay between 2 ction manual.	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max 2 pulses 1ms	itage: 30V, Ma er selectable l 0V or open. nunted by 27 ^t rimum high	al: 2~30V or op ximum Sink Cu ogic. V zener) level input =	rrent: 10mA.
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	nals		Enable/Disab Two open dra Maximum Idedge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou	ole PS output I ain programm ow level inpu r: tw=10us n Voltage: 0~0.6 (5000hm imp to 4 identical uni es can be con tput power to	oy electrical si- oy electrical si- oy electrical si- iable signals. N it voltage = 0 ininimum. Tr, T ioV/2~30V or dr bedance)=Fail units in Master its. Refer to insi- nected in Dais a proggramn	gnal or dry cor gnal or dry cor Maximum volta 0.8V, Minimur f=1us Maxim y contact. //Slave mode. I truction manu y chain to syn- ned value. Prog	ctor. Remote: ntact. 0~0.6V o ntact. Remote age 25V, Maxin n high level num, Min del	On. Local: Off. or short, 2~30\times 0~0.6\times or short or short or short of the curricular of the community of the communi	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI = 2.5V, Max 2 pulses 1ms urn-off. cation ports o	r the front pa	al: 2~30V or op ximum Sink Cu ogic. V zener) level input =	rrent: 10mA.
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	nals		Enable/Disab Two open dra Maximum Icedge trigge By electrical \u2214 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri	ole PS output I ain programm ow level inpur: tw=10us n voltage: 0~0.6 (5000hm imp to 4 identical unites can be con tput power to es resistance.	oy electrical si- oy electrical si- oy electrical si- lable signals. N at voltage = 0 ininimum. Tr, T SV/2~30V or dr bedance)=Fail units in Master ts. Refer to insi- nected in Dais a proggramm Resistance rai	gnal or dry cor gnal or dry cor Maximum volta 0.8V/Minimur f=1us Maxim y contact. //Slave mode. I truction manu y chain to syn- ned value. Prognee: 1~1000m	ctor. Remote: ntact. 0~0.6V of ntact. Remote age 25V, Maxii n high level num, Min del al. chronize their gramming via Ω. Programm	On. Local: Off. or short, 2~30\text{Vo.6V or short} num sink curr input voltage ay between 2 ction manual. turn-on and t the communic	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max 2 pulses 1ms urn-off. cation ports o	r the front pa ports or the front pa ports or the front pa	al: 2~30V or op ximum Sink Cu ogic. V zener) level input =	rrent: 10mA.
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	nals		Enable/Disab Two open dra Maximum Ic edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri	ole PS output lain programmow level inpur: tw=10us n Voltage: 0~0.6 (5000hm impure to 4 identical united to 1000hm impure to 2000hm impure to	oy electrical si- oy electrical si- oy electrical si- lable signals. N at voltage = 0 ininimum. Tr, T SV/2~30V or dr bedance)=Fail units in Master ts. Refer to insi- nected in Dais a proggramm Resistance rai	gnal or dry cor gnal or dry cor Maximum volta 0.8V/Minimur f=1us Maxim y contact. //Slave mode. I truction manu y chain to syn- ned value. Prognee: 1~1000m	ctor. Remote: ntact. 0~0.6V of ntact. Remote age 25V, Maxii n high level num, Min del al. chronize their gramming via Ω. Programm	On. Local: Off. or short, 2~30\text{Vo.6V or short} num sink curr input voltage ay between 2 ction manual. turn-on and t the communic	Maximum Vol / or open. Use ort. Local: 2~3 ent 100mA (SI e = 2.5V, Max 2 pulses 1ms urn-off. cation ports o	r the front pa ports or the front pa ports or the front pa	al: 2~30V or op ximum Sink Cu ogic. V zener) level input =	rrent: 10mA.
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	nals		Enable/Disab Two open dra Maximum Ik ledge trigge By electrical \u20e4 4~5V=OK, 0V Possible. Up the possible open supplication of the possible open supplication open supp	ole PS output I sin programm ow level inpu well inpu well output I so 4 identical uni es can be con tput power to es resistance. le Output rise on ports or th	oy electrical si- oy electrical si- able signals. A it voltage = (so/2~30V or dr bedance)=Fail units in Master is. Refer to insi- nected in Dais a proggramm Resistance rai and Output fi- ele front panel.	gnal or dry cor gnal or dry cor daximum volta .8V,Minimur f=1us Maxim y contact. //Slave mode. I truction manu y chain to syn- led value. Prog- nge: 1~1000m all slew rate. Prog-	ctor. Remote: ntact. 0~0.6V htact. Remote ge 25V, Maxin in high level num, Min del num, Min del chronize their gramming via Ω Programm orgramming rogramming rogramm	On. Local: Off. or short, 2~30? 0~0.6V or short num sink curr nput voltage ay between 2 ction manual. turn-on and t the communic ing via the cor ange: 0.0001~	Maximum Vol / or open. Use rt. Local: 2~3 ent 100mA (SI = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1999.99 V/mSe	tage: 30V, Ma or selectable I OV or open. nunted by 27V itimum high	al: 2~30V or op ximum Sink Cu ogic. V zener) level input =	rrent: 10mA. 5V positive via the
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	ACK (USB, LAN,		Enable/Disab Two open dra Maximum Ik ledge trigge By electrical \u20e4 4~5V=OK, 0V Possible. Up the possible open supplication of the possible open supplication open supp	ole PS output I sin programm ow level inpu well inpu well output I so 4 identical uni es can be con tput power to es resistance. le Output rise on ports or th	oy electrical si- oy electrical si- able signals. A it voltage = (so/2~30V or dr bedance)=Fail units in Master is. Refer to insi- nected in Dais a proggramm Resistance rai and Output fi- ele front panel.	gnal or dry cor gnal or dry cor daximum volta .8V,Minimur f=1us Maxim y contact. //Slave mode. I truction manu y chain to syn- led value. Prog- nge: 1~1000m all slew rate. Prog-	ctor. Remote: ntact. 0~0.6V htact. Remote ge 25V, Maxin in high level num, Min del num, Min del chronize their gramming via Ω Programm orgramming rogramming rogramm	On. Local: Off. or short, 2~30? 0~0.6V or short num sink curr nput voltage ay between 2 ction manual. turn-on and t the communic ing via the cor ange: 0.0001~	Maximum Vol / or open. Use rt. Local: 2~3 ent 100mA (SI = 2.5V, Max 2 pulses 1ms urn-off. cation ports o mmunication 1999.99 V/mSe	tage: 30V, Ma or selectable I OV or open. nunted by 27V itimum high	al: 2~30V or op ximum Sink Cu ogic. V zener) level input = nel. ront panel. Programming	rrent: 10mA. 5V positive via the
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GENESYS[™] 1.7kW SERIES SPECIFICATIONS

C. I TO LEGIS CO. C.											
OUTPUT RATING	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	A W	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
INPUT CHARACTERISTICS 1.Input voltage/freq. (*3)	V	10 85~265Vac. c	20 ontinuous, 47	30 ~63Hz,Single	Hase	60	80	100	150	300	600
2. Maximum Input current at 100% load (100/200)	A	20/10									
3.Power Factor (Typ)			c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50A	١								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.01% of rate	d output volta	age							
2.Max. Load regulation (*7)		0.01% of rate	d output volta	age +2mV							
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	8	20	100
5.Temperature coefficient	PPM/°C				lowing 30 min						
6.Temperature stability					lowing 30 min				0.		
7. Warm-up drift				1	-2mV over 30 r	ninutes follov	ving power on	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	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time: Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200
No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS				n 0.5% of its ra r models up to				rated output cove 100V.	urrent. Outpu	t set-point:
12.Start up delay	Sec	Less than 6 Se	ec .				-				
13.Hold-up time	mS				16	ms typical, rat	ed output pov	ver			
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output curre		40	00	00	100	130	300	000
2.Max. Load regulation (*9)		0.02% of rate									
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
Simple lims. @ facea voltage. Divi Stiz. 11112. (15)	11171	_			out current, fol				210		
5.Temperature coefficient	PPM/°C				ut current, follo						
6.Temperature stability					lowing 30 min				perature.		
					ated output c						
7. Warm-up drift					output current			51			
ANALOG PROGRAMMING AND MONITORING (IGOLATE	DEDOM										
ANALOG PROGRAMMING AND MONITORING (ISOLATE											
				or coloctable	Accuracy and	linoaritus 1/0	1EN/ of rated	laut			
1.Vout voltage programming (*14)		1			Accuracy and						
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.			
2.lout voltage programming (*14) 3.Vout resistor programming		0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full	ser selectable. scale, user sele	Accuracy and ectable. Accura	linearity: +/-0 acy and linear	0.4% of rated lo rity: +/-0.5% of	out. rated Vout.			
2. Lout voltage programming (*14) 3. Vout resistor programming 4. Lout resistor programming (*14)		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 sele scale, user sele	Accuracy and ectable. Accuracy	linearity: +/-0 acy and linear acy and linear	0.4% of rated lo rity: +/-0.5% of	out. rated Vout.			
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor		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 V, user select	ser selectable. scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accuracy actable. Accuracy: +/-0.5% of ra	linearity: +/-0 acy and linear acy and linear ted Vout	0.4% of rated lo rity: +/-0.5% of	out. rated Vout.			
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)		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 V, user select	ser selectable. scale, user sel scale, user sel able. Accuracy	Accuracy and ectable. Accuracy	linearity: +/-0 acy and linear acy and linear ted Vout	0.4% of rated lo rity: +/-0.5% of	out. rated Vout.			
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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 p	ower supply o	hanges mode le in autostart	from CV or P mode, by Po	ower Limit to wer Switch, by	CC mode or fr	om CC or Pow ton, by rear pa	er Limit to CV inel or by con	mode.
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	by AC input re	ycle in autost	art mode, by	OUTPUT butt	on, by rear pa	nel or by com	munication.	
3.Over -voltage programming range		٧	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 accur-	acy			d output volta								
5.Output under voltage limit (UVL)						t. Does not ap		programming	j. Preset by fro	ont panel or co	mmunicatio	n port.
6.Over temperature protection						y autostart mo	de.					
7. Output under voltage limit (UVL)					ut below limit							
8. Output under voltage protection	(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 con	g under voltag nmunication.	ge condition. F	Reset by AC in	put recycle in	autostart
FRONT PANEL												
1.Control functions			Multiple opti	ons with 2 En	coders							
				wer Limit ma								
			OVP/UVL/UV									
						dback, OCL, EI						
						LAN,IEEE,RS2	32,RS485,USE	3 or Optional c	ommunicatio	n interface.		
				FF. Front Pan		D 1D 4 A						
						Baud Rate, Ad tage/resistive				mina		
						Voltage/Curre			iok programi	ning		
2.Display								g 5 v/ 10 v.				
Z.o.spiay			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 LED Autoctart Safetetart Foldback V/I Demote							note		
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 1009	6 load								
2.Storage temperature			-30~85°C	o ioau.					-			
3.Operating humidity		%	20~90% RH (ion)							
· · · ·		%		no condensat								
4.Storage humidity							V (100 T	1 11 1001	100 0	1000 N	.: 400	205: (12000)
5.Altitude			Operating: 10	0000ft (3000m	n), output curr	ent derating 2º	%/100m or 1a	derating 1°C/	100m above 2	2000m. Non op	erating: 4000	OUTT (12000m).
MECHANICAL												
1.Cooling			Forced air co	oling by inter	nal fans. Air flo	w direction: fo	rom Front pa	nel to power s	upply rear			
2.Weight		kg	Less than 5kg	J.								
3.Dimensions (WxHxD)		mm				isbars and bu busbars and b			Outline draw	ring).		
4.Vibration			MIL-810G, me	ethod 514.6, P	rocedure I, tes	t condition Ar	nnex C - 2.1.3	.1				
5.Shock			Less than 200	3, half sine, 11	mSec. Unit is ι	ınpacked.						
SAFETY/EMC												
	afety G1kW/G1.7kW		UI 61010-1 C	SA22 2 No 610	010-1 IFC6101	D-1, EN61010-1						
	1kW/1.7kW		Vout≤50V Mo	odels: Output	J1, J2, J3, J4, J	5, J6, J7, J8 (ser	nse) & J9 (con	nmunication o	ptions) are No	on Hazardous.	s) are Non Ha	zardous.
1.2 Withstand voltage G	1kW/1.7kW		Vout≤50V Models: Output, JI, 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. Vout≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, 100√sVout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, 100√sVout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense) + J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense) + J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1m 100√sVout≤600V Models: Input – Output & J8 (sense) + J1, J2, J3, J4, J5, J6, J7 & J9 (communicatio							Imin,		
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 I	H.1 , FCC Part	15-A, VCCI-A .				
3.Radiated emission						nnex H table I						
	MC (*4)			IEC/EN61204			,		-			

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

NOTES:

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

*2: Minimum current is guaranteed to maximum 0.2% of rated output current.

*3: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 100-240Vac (50/60Hz).

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

*5: Not including EMI filter inrush current, less than 0.2mSec.

*6: 85~132Vac or 170~265Vac. Constant load.

*7: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

*8: For 10V-150V models: Measured with JEITA RC-913T (C1:1) 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.

*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. Every model, the ripple is measured at 10~100% of rated output voltage and rated output current Every model, the ripple is measured at 10~100% of rated output voltage and rated output current Every model, the ripple is measured at 10~100% of rated output voltage and rated output current Every model, the ripple is measured at 10~100% of rated output voltage and rated output current Every model.

*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

OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5	
1.Rated output voltage(*1)		٧	10	20	30	40	60	80	100	150	300	600	
2.Rated output current (*2)		Α	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	
INPUT CHARACTERISTICS		٧	10	20	30	40	60	80	100	150	300	600	
		-	_			63Hz (Covers 2							
1.Input voltage/freq. 3 phase, 3 v	uiro I Cround (*4)					63Hz (Covers		/ac)					
1.IIIput voitage/IIeq. 3 pilase, 3 v	viie + Gioulia (4)					63Hz (Covers 3			ac)				
	0.01				~265Vac, 47~	63Hz (Covers 2	200/208/230/2	240Vac)					
	3-Phase, 200V models:		10A @ 200Vac										
2. Maximum Input current at 100% load	3-Phase, 400V models:		5.5A @ 380Va 5.5A @ 380Va										
100% 10au	3-Phase, 480V models: 1-Phase, 200V models:		16.5A @ 380Va										
	1-1 Hase, 2004 Hiodels.		For 3-Phase: (OVac rated o	utnut nower							
3.Power Factor (Typ)			For 1-Phase: 0										
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 50A	1			,		,			•	
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*7)			0.01% of rate			1 40	00	00	100	130	300	000	
2.Max. Load regulation (*8)			0.01% of rate			-		-					
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	80	80	100	120	200	480	
4.Ripple r.m.s. 5Hz~1MHz (*9)	(2)	mV	8	10	10	12	15	15	15	20	60	100	
5.Temperature coefficient		PPM/°C				llowing 30 mir			1.5		1 00	100	
6.Temperature stability						llowing 30 mir			ne load & tem	nn			
7. Warm-up drift						+2mV over 30				r*			
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	
9.Up-prog. Response time (*11)	= (10)	mS	30	30	30	30	50	50	50	50	50	100	
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200	
10.Down-prog.response time:	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100	
	IOUU (12)										current. Outp		
11.Transient response time		mS	10~100%, Loc	cal sense. Les	s than 1mS, fo	r models up to	and includin	g 100V. 2mS, f	or models ab	ove 100V.	carrein. Outp	acsec-poilit.	
12.Start up delay		Sec	Less than 6 Se		-,	.,				· · · · · · · · · · · · · · · · · · ·			
		.,,											
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600	
1.Max. Line regulation (*7)			0.05% of rate										
2.Max. Load regulation (*13)	DI (74.0)		0.08% of rate								1 40		
3.Ripple r.m.s. @ rated voltage. 3		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5	
4.Ripple r.m.s. @ rated voltage. 1-	-Pnase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8	
5.Temperature coefficient		PPM/°C				put current, fo							
C.T													
6.Temperature stability						1√-600V 70PPM/°C from rated output current, following 30 minutes warm-up. 1% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.							
					a 1/0 250/ of	rated autout a	urrant auar 2	0 minutes falls		0.00			
7. Warm-up drift						rated output o				on.			
7. Warm-up drift						rated output c output curren				on.			
7. Warm-up drift ANALOG PROGRAMMING AND I	MONITORING (ISOLATED		150V~600V: L THE OUTPUT)	ess than +/-0	.15% of rated	output curren	t over 30 min	utes following	power on.	on.			
ANALOG PROGRAMMING AND I		FROM '	150V~600V: L THE OUTPUT) 0~100%, 0~5	ess than +/-0	.15% of rated ser selectable	output curren	t over 30 min	utes following 0.15% of rated	power on. Vout.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1!		FROM	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	ess than +/-0 V or 0~10V, u: V or 0~10V, u:	.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 I	power on. Vout. out.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1! 3.Vout resistor programming	5)	 	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	.ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full	.15% of rated ser selectable ser selectable scale, user sel	. Accuracy and . Accuracy and ectable. Accur	t over 30 min l linearity: +/- l linearity: +/- racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1: 3.Vout resistor programming 4.lout resistor programming (*1:	5)		150V~600V: L THE OUTPUT) 0~100%, 0~5' 0~100%, 0~5' 0~100%, 0~5, 0~100%, 0~5,	ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full	ser selectable ser selectable scale, user sel scale, user sel	. Accuracy and . Accuracy and ectable. Accur ectable. Accur	t over 30 min l linearity: +/- l linearity: +/- racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*12 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	 	150V~600V: L THE OUTPUT) 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 /10Kohm full V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac	. Accuracy and . Accuracy and ectable. Accur ectable. Accur y: +/-0.5%.	t over 30 min l linearity: +/- l linearity: +/- racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*1: 3.Vout resistor programming 4.lout resistor programming (*1:	5)		150V~600V: L THE OUTPUT) 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 /10Kohm full V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac	. Accuracy and . Accuracy and ectable. Accur ectable. Accur y: +/-0.5%.	t over 30 min l linearity: +/- l linearity: +/- racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*12 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	 	150V~600V: L THE OUTPUT) 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 /10Kohm full V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac	. Accuracy and . Accuracy and ectable. Accur ectable. Accur y: +/-0.5%.	t over 30 min l linearity: +/- l linearity: +/- racy and linea	0.15% of rated 0.4% of rated I rity: +/-0.5% o	Vout. out. frated Vout.	on.			
ANALOG PROGRAMMING AND I 1.Vout voltage programming 2.lout voltage programming (*12 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 	150V~600V: L 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	v or 0~10V, u: V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full V, user select V, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac able. Accurac	Accuracy and Accuracy and Accuracy and ectable. Accure ectable. Accure et al. (2.5%). Accure (2.5%). Accure (2.5%). Accure (2.5%).	I linearity: +/- I linearity: +/- racy and linearacy	0.15% of rated 0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o	vout. out. frated Vout. frated lout.		mum Sink Curr	rent: 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	150	300	600
2.Rated output current (*2)	A	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power	W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
		3-Phase, 200	V models: 170	~265Vac, 47~	63Hz (Covers 2	200/230Vac)					
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 480	V models: 342	~460Vac, 47~ ~528Vac, 47~ ~265Vac, 47~6	63Hz (Covers	380/400/415/	440/460/480V	ac)			
2. Maximum Input current at 3-Phase, 200V m		12.5A @ 200V 6.5A @ 380Va	ac ac	200140, 17	33112 (607613)	200, 200, 200,	210146)				
100% load 3-Phase, 480V m		6.5A @ 380Va									
1-Phase, 200V m	odeis:	21A @ 200Va		30Vac, rated ou	itnut nower				-		
3.Power Factor (Typ)				, rated output							
4.Efficiency (Typ) (*5) (*22)	%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)	A	Less than 50/	4								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			d output volta								
2.Max. Load regulation (*8)	mV	0.01% of rate 75	d output volta 75	75 75	75	80	80	100	120	200	480
3.Ripple and noise (p-p, 20MHz) (*9) 4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient	PPM/°C			ut voltage, fol				15	20	- 00	100
6.Temperature stability							ıp. Constant li	ne, load & tem	ıp.		
7. Warm-up drift		Less than 0.0	5% of rated o	utput voltage	+2mV over 30	minutes follo	wing power o	n.			
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS 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
										current. Outpi	
11.Transient response time	mS	10~100%, Lo	cal sense. Les	s than 1mS, fo	r models up to	o and includi	ng 100V. 2mS, 1	for models ab	ove 100V.		
12.Start up delay	Sec	Less than 6 Se	ec							-	
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)		0.05% of rate	d output curr	ent.							
2.Max. Load regulation (*13)			d output curr	1							
3.Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200 10V~100V	≤600	≤300	≤300	≤200	≤100 inutes warm-ı	≤60	≤40	≤12	≤8
5.Temperature coefficient	PPM/°C						nutes warm-u				
6.Temperature stability							ıp. Constant li		perature.		
7. Warm-up drift		10V~100V m	odel: Less thar	n +/-0.25% of	rated output o	current over 3	0 minutes foll	owing power	on.		
7. Walin-up dilit		150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.									
ANALOG PROGRAMMING AND MONITORING (ISO	DLATED FROM	THE OUTPUT) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.									
1.Vout voltage programming											
2.lout voltage programming (*15)							0.4% of rated				
3.Vout resistor programming							arity: +/-0.5% o				
4.lout resistor programming (*15) 5.Output voltage monitor				able. Accuracy		racy and line	arity: +/-0.5% o	rated lout.			
6.Output current monitor (*15)				able. Accuracy							
SIGNALS AND CONTROLS (ISOLATED FROM THE	OUTDUT)										
1. Power supply OK #1 signal		Power supply	/ output moni	itor Onen coll	ector Output	On: On Outr	out Off: Off Ma	aximum Volta	ne: 30V Maxir	num Sink Curr	ent: 10mA
2. CV/CC signal							um Voltage: 3				
3. LOCAL/REMOTE Analog control										al: 2~30V or o	pen.
4. LOCAL/REMOTE Analog signal										ximum Sink Cu	rrent: 10mA.
5. ENABLE/DISABLE signal							or short, 2~3			logic.	
6. INTERLOCK (ILC) control					-		e: 0~0.6V or sl			7\/ =ono=\	
7. Programmed signals							linnut volta			/V zener) level input =	= 5V nositivo
8. TRIGGER IN / TRIGGER OUT signals		edge trigge	r: tw=10us n	ninimum. Tr,	rf=1us Maxir	mum, Min de	lay between	2 pulses 1m	is.	neverinput =	- 24 hositive
9. DAISY_IN/SO control signal		By electrical	Voltage: 0~0.€	5V/2~30V or d	ry contact.						
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK, 0\	(500ohm imp	oedance)=Fail							
FUNCTIONS AND FEATURES											
1. Parallel operation							uction manua	ıl.			
2. Series operation				ts. Refer to ins							
Daisy chain Constant power control									or the frant -	anal	
5. Output resistance control		Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.									
6. Slew rate control		Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the									
		Programmab	le Output rise	and Output f	all slew rate. F						g via the
		Programmab communicat	le Output rise ion ports or th	and Output f ne front panel.	all slew rate. F	Programming	range: 0.0001	~999.99 V/mS	ec. or A/mSec	. Programmin	
7. Arbitrary waveforms		Programmab communicat	le Output rise ion ports or th	and Output f ne front panel.	all slew rate. F	Programming	range: 0.0001	~999.99 V/mS	ec. or A/mSec		
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Programmab communicat	le Output rise ion ports or th	and Output f ne front panel.	all slew rate. F	Programming	range: 0.0001	~999.99 V/mS	ec. or A/mSec	. Programmin	
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) V	Programmab communicat Profiles of up	le Output rise ion ports or th to 100 steps o	e and Output fine front panel. can be stored	all slew rate. F	Programming cells. Activati	range: 0.0001	~999.99 V/mS	ec. or A/mSec	orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Programmab communicat Profiles of up 10 0.05% of rate	le Output rise ion ports or th to 100 steps o 20 d output volt	e and Output fine front panel. can be stored	all slew rate. F	Programming cells. Activati	range: 0.0001	~999.99 V/mS	ec. or A/mSec	orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces 1.Vout programming accuracy (*16)) V	Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua	le Output rise ion ports or th to 100 steps o 20 d output volt	and Output for front panel. can be stored 30 age ent+0.2% of ra	all slew rate. F	Programming cells. Activati	range: 0.0001	~999.99 V/mS	ec. or A/mSec	orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution) V	Programmate communicate Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate 0.002% of	le Output rise on ports or th to 100 steps 20 d output volt. l output curre ed output vol ed output cu	and Output for front panel. can be stored 30 age ent+0.2% of raitage errent	all slew rate. F in 4 memory o	Programming cells. Activati	range: 0.0001	~999.99 V/mS	ec. or A/mSec	orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V V	Programmat communicat Profiles of up 10 0.05% of rate 0.1% of actual 0.002% of rat 0.002% of rat 0.005% of rate 0.05% of rate	le Output rise ion ports or the to 100 steps of 20 d output volt. I output curre ed output vol ed output cui ed output vol	and Output for front panel. can be stored 30 age ent+0.2% of raltage rrent tage	all slew rate. F in 4 memory o	Programming cells. Activati	range: 0.0001	~999.99 V/mS	ec. or A/mSec	orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15)	V V	Programmat communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate 0.05% of rate 0.2% of r	le Output rise ion ports or the to 100 steps 20 d output volt. l output curre ed output vol ed output cur ed output curre cutput curre	and Output for front panel. can be stored 30 age ent+0.2% of raltage rrent tage nt	all slew rate. Find a memory of the state of	Programming cells. Activati 60 urrent	range: 0.0001 on by commar 80	~999,99 V/mS nd via the com	ec. or A/mSec munication p	programmin. Programmin orts or by the	front panel.
7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy) V 	Programmat communicat Profiles of up 10 0.05% of rate 0.1% of actual 0.002% of rat 0.002% of rat 0.005% of rate 0.05% of rate	le Output rise ion ports or the to 100 steps of 20 d output volt. I output curre ed output vol ed output cui ed output vol	and Output for front panel. can be stored 30 age ent+0.2% of raltage rrent tage	all slew rate. F in 4 memory o	Programming cells. Activati	range: 0.0001	~999.99 V/mS	ec. or A/mSec	orts or by the	front panel.

GENESYS[™] 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)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	A	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power	W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)				lels: 170~2				(230Vac) (/400/415V	(ac)						
impat voltage/rieq. 5 phase, 5 wire 1 dround (4)								400/415/4		30Vac)					
2. Maximum Input current at 3-Phase, 200V models	_	17.5A @ 2													
100% load		9.2A @ 38													
3-Phase, 480V models 3.Power Factor (Typ)		9.2A @ 38		rated out	nut nowe	r									
4.Efficiency (Typ) (*5) (*22)	%	89 (*21)	91	91	91	90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)	Α	Less than	50A												
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of	rated outp	out voltag	e										
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 5000M4/9/	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient 6.Temperature stability	PPM/°C							es warm-u es warm-u		at line lea	d 9. tomp				
7. Warm-up drift								utes follo			u & temp.				
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
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							l output fo					t current.	Output se	t-point:
12.Start up delay	Sec	10~100% Less than		ise. Less ti	ıarı ims,1	or models	up to an	d includin	y 100V. 2n	וס, וטו mo, כוו	ueis abov	e 100V.			
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7) 2.Max. Load regulation (*13)				out curren											
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
		10V~100\						ving 30 mi			5	5			
5.Temperature coefficient	PPM/°C	150V~60	0V 70PPI	V/°C from	rated out	put curre	nt, followi	ing 30 min	utes warn	n-up.					
6.Temperature stability								es warm-u							
7. Warm-up drift								ent over 30				١.			
		150V~60	UV: Less th	ian +/-0.15	% of rate	d output c	urrent ov	er 30 minu	utes follov	ving powe	er on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPU	JT)												
1.Vout voltage programming								earity: +/-(
2.lout voltage programming (*15)								earity: +/-(-1.1/				
3.Vout resistor programming 4.lout resistor programming (*15)								and linea and linea							
5.Output voltage monitor				r selectab					11ty. +/-0.2	70 OI Tate	a lout.				
6.Output current monitor (*15)				r selectab											
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	IT)														
1. Power supply OK #1 signal		Power su	nnly outn	ut monito	r Open co	ollector O	utput On	: On. Outp	ut Off: Off	Maximuu	m Voltage	· 30V Max	imum Sinl	k Current:	10mA
2. CV/CC signal			· · ·					ff. Maximu						· curreriti	
3. LOCAL/REMOTE Analog control		Enable/D	isable ana	log progr	amming o	control by	electrical	signal or	dry contac	t. Remote	e: 0~0.6V c	or short. Lo	ocal: 2~30	V or open	
4. LOCAL/REMOTE Analog signal		analog pr	ogrammir	ng control	monitor s	ignal. Ope	n collecto	r. Remote:	On. Local:	Off. Maxir	num Volta	ge: 30V, M	aximum S	ink Curren	t: 10mA.
5. ENABLE/DISABLE signal								ct. 0~0.6V							
6. INTERLOCK (ILC) control								ct. Remote							
7. Programmed signals								25V, Max							
8. TRIGGER IN / TRIGGER OUT signals								nigh level Maximum					n ievel in	iput = 5V	
9. DAISY_IN/SO control signal				e: 0~0.6V											
10. DAISY_OUT/PS_OK #2 signal		4~5V=OH	(, OV (500c	hm impe	dance)=F	ail									
FUNCTIONS AND FEATURES															
1. Parallel operation		Possible.	Up to twe	lve (12) ide	entical uni	its in Mast	er/Slave n	node. Refe	r to instru	ction man	ual. For m	ore power	please co	nsult with	Factory.
2. Series operation					Refer to i										
3. Daisy chain			Iwo ident	rear armes.											
	_	Possible. Power su	pplies car	be conne		aisy chain	to synchr	onize thei							
4. Constant power control		Possible. Power su Limits the	pplies car e output p	be conne	proggran	aisy chain nmed valu	to synchr e. Progra	mming via	the com	municatio	n ports or				
Constant power control Output resistance control		Possible. Power su Limits the	pplies car e output p series res	be conne ower to a istance. R	proggran esistance	aisy chain nmed valu range: 1~	to synchr e. Progra 1000mΩ.	mming via Programn	the comi	municatio e commu	n ports or nication p	orts or the	front par		41.
·		Possible. Power su Limits the Emulates Programi	pplies can e output p series res mable Out	be conne ower to a istance. R	proggran esistance nd Outpu	aisy chain nmed valu range: 1~ t fall slew	to synchr e. Progra 1000mΩ.	mming via	the comi	municatio e commu	n ports or nication p	orts or the	front par		the
5. Output resistance control		Possible. Power su Limits the Emulates Programi	pplies can e output p series res mable Out ication po	be conne ower to a istance. Re tput rise a orts or the	proggran esistance nd Outpu front pan	aisy chain nmed valu range: 1~ t fall slew el.	to synchr e. Progra 1000mΩ. rate. Prog	mming via Programn	a the comi ning via th range: 0.0	municatio e commu 001~999.9	n ports or nication p 99 V/mSec	orts or the	e front par ec. Progra	mming via	
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Possible. Power su Limits the Emulates Programi	pplies can e output p series res mable Out ication po	be conne ower to a istance. Re tput rise a orts or the	proggran esistance nd Outpu front pan	aisy chain nmed valu range: 1~ t fall slew el.	to synchr e. Progra 1000mΩ. rate. Prog	mming via Programn ramming	a the comi ning via th range: 0.0	municatio e commu 001~999.9	n ports or nication p 99 V/mSec	orts or the	e front par ec. Progra	mming via	
Output resistance control Slew rate control Arbitrary waveforms		Possible. Power su Limits the Emulates Programme commun Profiles o	pplies can e output p series res mable Out ication po f up to 10	be conne ower to a istance. Re tput rise a rts or the 0 steps ca	proggran esistance nd Outpu front pan n be store	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	to synchr e. Progra 1000mΩ. rate. Prog mory cells	mming via Programn ramming a. Activatio	a the comining via the range: 0.0	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication	e front par ec. Progra ports or b	mming via	t panel.
S. Output resistance control Slew rate control Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces)	 V	Possible. Power su Limits the Emulates Program commun Profiles o	pplies can e output p series res mable Out ication po f up to 10 20 rated outp	be conne ower to a istance. Re tput rise a rts or the 0 steps ca	proggran esistance nd Outpu front pan n be store 40	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	to synchr e. Progra 1000mΩ. rate. Prog nory cells	mming via Programn ramming Activatio	a the comining via the range: 0.0	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication	e front par ec. Progra ports or b	mming via	t panel.
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16)		Possible. Power su Limits the Emulates Programic commun Profiles o 10 0.05% of 0.1% of an	pplies can e output p series res mable Out ication po f up to 10 20 rated outp	be connected to be connected to a listance. Respect to a listance of the connected to the c	proggran esistance nd Outpu front pan n be store 40 e t+0.2% of	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	to synchr e. Progra 1000mΩ. rate. Prog nory cells	mming via Programn ramming Activatio	a the comining via the range: 0.0	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication	e front par ec. Progra ports or b	mming via	t panel.
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution		Possible. Power su Limits the Emulates Programm Profiles o 10 0.05% of 0.1% of ar 0.002% o 0.002% o	pplies car e output p series res mable Out ication po f up to 100 20 rated outp ctual outp f rated ou f rated ou	be conne ower to a istance. Ri tput rise a rts or the 0 steps ca 30 out voltag out current tput volta tput current	proggran esistance nd Outpu front pan n be store 40 e t+0.2% of ge nt	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	to synchr e. Progra 1000mΩ. rate. Prog nory cells	mming via Programn ramming Activatio	a the comining via the range: 0.0	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication	e front par ec. Progra ports or b	mming via	t panel.
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Possible. Power su Limits the Emulates Programu Profiles o 10 0.05% of 0.1% of a 0.002% o 0.002% o 0.005% of	pplies car e output p series res mable Out ication po f up to 100 20 rated outp f rated out f rated ou rated out	sistance. Red istance. Red istance. Red irts or the 0 steps car 30 out voltag out current tput volta tput curre put voltag	proggran esistance nd Outpu front pan n be store 40 e t+0.2% of ge nnt ge	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	to synchr e. Progra 1000mΩ. rate. Prog nory cells	mming via Programn ramming Activatio	a the comining via the range: 0.0	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication	e front par ec. Progra ports or b	mming via	t panel.
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15)	V	Possible. Power su Limits the Emulates Programu Profiles o 10 0.05% of 0.1% of a 0.002% o 0.002% o 0.005% of 0.2% of r 0.2% of r	pplies car e output p series res mable Out ication po f up to 10 20 rated outp trul outp f rated ou f rated out rated outp	s be connected to the c	proggran esistance nd Outpu front pan n be store 40 e t+0.2% of ge nt ge	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer 50	to synchr e. Progra 1000mΩ. rate. Prog nory cells 60	mming via Programn ramming s. Activatic 80	a the comming via the range: 0.0 on by comming via the range: 0.0 on by comming via the via th	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication 300	e front pai ec. Prograi ports or b	mming via	t panel.
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Possible. Power su Limits the Emulates Programu Profiles o 10 0.05% of 0.1% of a 0.002% o 0.002% o 0.005% of	pplies car e output p series res mable Out ication po f up to 100 20 rated outp f rated out f rated ou rated out	s be connected to the c	proggran esistance nd Outpu front pan n be store 40 e t+0.2% of ge nnt ge	aisy chain nmed valu range: 1~ t fall slew el. d in 4 mer	to synchr e. Progra 1000mΩ. rate. Prog nory cells	mming via Programn ramming Activatio	a the comining via the range: 0.0	municatio le commu 001~999.9 mand via 1	n ports or nication p 99 V/mSec the comm	orts or the . or A/mSe unication	e front par ec. Progra ports or b	mming via	t panel.

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.						
25 12 12 11 11 11		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		-30~85°C						
3.Operating humidity	%	20~90% RH (no condensation).						
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. Not 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.						
		60≤Vout≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous. Vout≤50V Models: Input — Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min, 1mput - Ground: 2835VDC 1min, 1mput - 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. Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1m="" 1min.="" 1min.<="" 2500vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" —=""></vout≤600v>						
1.2 Withstand voltage		Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V <vout=600v &="" (communication="" (sense),="" -="" 1min.<br="" 4242vdc="" and="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output=""> Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min.</vout=600v>						
1.2 Withstand voltage 1.3 Insulation resistance		Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V 100V Voutsé00V 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		Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V <vouts600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min.="" 1min.<="" 2500vdc="" 2835vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td=""></vouts600v>						
		Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V <vouts600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min.="" 1min.<="" 2500vdc="" 2835vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td=""></vouts600v>						

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

A	OUTDUIT DATING		20.275	20.250	40.100	60.125	00.04	100.75	150.50	200 275	200.25	COO 12 F	1000 75	1500.5
Skede clayers treesger* V 20 8 84 60 80 100 150 200 200	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
Allested computer	. ,													
Ribert Consequence W 790														
Page 1.0	2.Rated output current (*2)	Α	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
Special Content of the Content of	3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
Special Content of the Content of	INDUT CHAPACTERISTICS	W	20	20	40	60	00	100	150	200	200	600	1000	1500
Prince Add Prince Prince A	INPUT CHARACTERISTICS	V							150	200	300	600	1000	1500
State Development Developmen	1.Input voltage/freg. 3 phase, 3 wire+ground (*4)													
1.56 1.50					342~528Va	c, 47~63Hz	(Covers 380)/400/415/4	40/460/480	Vac).				
11.56 2000/2007 11.5														
## Self-index (Pg) 15 15 15 15 15 15 15 1	100% load 3-Phase, 480V models:		13.5A @ 380	OVac.										
Distant production Part Distance Part	3.Power Factor (Typ.)		0.94 @ 200/	380Vac, rat	ed output p	ower.								
Distant production Part Distance Part	4.Efficiency (Typ.) (*5) (*3)	%	91	**	91	**	**	91	91	**	**	92	**	92
CONSTANT VOLTAGE MODE V 20 30 40 80 80 100 100 200 600 100 1500 1				5A										
Mask Lade regulation (17)														
2006 of rated output voltage - 5mV.		V				60	80	100	150	200	300	600	1000	1500
Simple cases 1907	1.Max. Line regulation (*7)		0.01% of ra	ted output v	voltage.									
Comparative confidence 10	2.Max. Load regulation (*8)		0.01% of ra	ted output v	voltage +5n	ηV.								
Simportance certificient	3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	**	80	**	**	90	150	**	**	450	**	1300
College Coll	4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	**	8	**	**	15	20	**	**	100	**	500
College Coll			50PPM/°C f	rom rated o	utput volta	ae. followir	a 30 minut	es warm-ur).					
Remote some compersation/wire (**10)	-						-			line load &	temperatu	re		
Remote response time Time											temperate	10.		
30-per page 100-per page 100-p												-	Е	
10.0 bown-piops, response time	·	-							_					
No. No.														
Mosael (12)	III) Down-prog response time	mS												
11.Transient response time	No load (*12)													3000
Less than Initis for models up to and including 100V. 2ms for models above 100V.			Time for ou	tput voltag	e to recove	r within 0.5	% of its rate	d output fo	r a load cha	nge 10~90%	6 of rated o	utput curre	nt.	
12. Start up delay	11.1ransient response time						1001/ 2	for mad-1	ahous 1001	,				
SmS Typical, Rated output power. SmS Typical, Rated output power.	12 Chart van delevi				eis up to an	u inciuaing	100v. 2mS	ior models	apovė 100V					
Max. Line regulation (**)2									-					
Max Line regulation (**?)	13.Hold-up time		5mS Typica	I. Rated out	put power.									
Max Line regulation (**?)	CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
2.008 Continue to Contin								.50	.50	200	550	550	.000	.550
A														
A.Temperature coefficient				eu output		**	**	-70	-45	**	**	_14	**	
	J.nippie I.III.S. J⊓Z∼IIVIĦZ (* 14)	mA		11.55								≤14		€Ž
150V-1500V models: \textity 150V-150V	4.Temperature coefficient	PPM/°C												
Warm-up drift														
SWAPMIN SWAP	5. Temperature stability		0.01% of ra	ted lout ove	r 8hrs. inte	val followir	ıg 30 minut	es warm-u	p. Constant	line, load & t	emperatu	e.		
SWAPMIN SWAP	- L:6		20V~100V r	nodels: Less	s than +/-0.	25% of rate	d output cu	rrent over 3	30 minutes f	ollowing po	wer on.		-	
ANALGG PROGRAMMING AND MONITORING (ISOLATED FROM THE CUTPUT)	6.Warm-up drift													
1.00 to 100% 0-5V or 1-010% user selectable. Accuracy and linearity: 4-0.5% of rated dust.					225 GIUIT 17	, o o i i ai	- a carput		. somiute					
2-lout voltage programming (*15)	ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT)										
2-lout voltage programming (*15)	1.Vout voltage programming		0~100%, 0~	~5V or 0~10	V, user selec	table. Accu	racy and lir	nearity: +/-0	0.15% of rate	ed Vout.				
3-0-109%, 0-5/10KG full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.														
Albut resistor programming (**15)														
0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated Vout.														
Signal S									r/-u.3% 0I	rateu IOU(.				
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1.Power supply (of x 1 signal 2 Power supply) output monitor. Open collector. Cutput On: On. Output Off: Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA. 2.CVCC Signal														
Power supply OK #1 signal	o.Output current monitor (* 15)		u~⊃v or U~	iov, user se	iectabie. Ac	curacy: +/-(or rate מיכ.י	u IUUT.						
Power supply OK #1 signal	SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)												
CV/CC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V. Maximum Sink Current: 10mA.	1.Power supply OK #1 signal		Power supr	oly output n	nonitor. On	en collector	. Output Or	n: On. Outpi	ut Off: Off. N	Maximum Vo	Itage: 30V	Maximum !	Sink Current	: 10mA.
Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open.														
ALOCAL/REMOTE Analog signal Analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V. Maximum Sink Current: 10m.A. S.ENABLE signal Enable/Disable PS output by electrical signal or dry contact. O-0.6V or Short. 2-30V or open. User selectable logic. Enable/Disable PS output by electrical signal or dry contact. O-0.6V or Short. Output OFF.2-30V or open. User selectable logic. Enable/Disable PS output by electrical signal or dry contact. Output Note. 0-0.6V or Short. Output OFF.2-30V or open. User selectable logic. Enable/Disable PS output by electrical signal or dry contact. Output Note. 0-0.6V or Short. Output OFF.2-30V or open. User selectable logic. Enable/Disable PS output by electrical signal or dry contact. One of the programmation of the programming via communication ports or front panel. Programmation of the programmation of the programming via communication ports or front panel. Programmation of the programming via communication ports or front panel. Programmation of the programming via communication ports or front panel. Programming via communication ports or front panel. Programming via communication ports or front panel. Programmation of the programming via communication ports or front panel. Programmation of the programming via communication por														١.
S.ENABLE/DISABLE signal														
Enable/Disable PS output by electrical signal or dry contact. Output ON: 0~0.6V or short. Output OFF: 2~30V or open.							<u> </u>							CITA TOTAL
Two open drain programmable signals														
Maximum low level input voltage = 0.8V. Minimum high level input voltage = 2.5V. Maximum high level input = 5V positive edge trigger: tw = 10us minimum. Tr, Tf = 1us maximum. Mini delay between 2 pulses 1ms. 9.DAISY_IN/SO control signal														
### STRIGGER IN / TRIGGER OUT signals	7.Programmed signals										A (shunted	1 by 27V zer	er).	
Min delay between 2 pulses Ims.	9 TDICCED IN /TDICCED OUT -:		Maximum I	ow level inp	out voltage	= 0.8V. Mini	mum high	level input	voltage = 2.	5V.				
Selectrical Voltage: 0~0.6V/2~30V or dry contact.	o.Thioden IIV / Thioden OUT Signals					ısıtıve eage	ungger: tw	- ious min	iiiium. Ir,If	– ius maxim	iuiii.			
10.DAISY_OUT/PS_OK #2 signal 4~5V = OK, 0V (500Ω impedance) = Fail.	9 DAISY IN/SO control signal		,			V or dry co	ntact							
FUNCTIONS AND FEATURES 1. Parallel operation	י בוחטיס ביוווין ביוחטיס ביוווין ביוחטיס						nact.							-
1. Parallel operation	10 DAICY OUT/DC OV #2 class-1		ן4~5V = UK,	0V (500011r	iipedance)	= raii.								
1. Parallel operation	10.DAISY_OUT/PS_OK #2 signal													
2. Series operation	10.DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES													
3. Daisy chain	FUNCTIONS AND FEATURES		Possible III	o to 4 identi	ical units in	Master/Slav	e mode Re	fer to instri	uction man	ıal.				
4. Constant power control	FUNCTIONS AND FEATURES 1. Parallel operation								uction manu	ıal.				
Emulates series resistance. Resistance range: 1~1000mΩ. Programming via communication ports or front panel. Programming range: 0.0010-999.99 //mS. or A/mS.	FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		Possible. Tv	vo identical	units. Refe	to instruct	on manual							
6. Slew rate control	FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain		Possible. Tv Power supp	vo identical olies can be	units. Refe connected	to instruct in Daisy cha	on manual in to synch	Ironize thei	r turn-on an	d turn-off.				
6. Slew rate control	FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		Possible. To Power supp Limits the o	vo identical olies can be output pow	units. Refe connected er to a prog	to instruct in Daisy cha rammed va	on manual iin to synch ue. Prograi	ironize thei mming via t	r turn-on an	d turn-off. nication port				
Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via communication ports or front panel.	FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		Possible. To Power supp Limits the c Emulates se	vo identical olies can be output poweries resista	units. Refe connected er to a prog nce. Resista	to instruct in Daisy cha rammed va nce range:	on manual iin to synch ue. Prograi I~1000mΩ.	ironize thei mming via t	r turn-on an	d turn-off. nication port				
PROGRAMMING AND READBACK V 20 30 40 60 80 100 150 200 300 600 1000 1500	FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	 	Possible. To Power supp Limits the c Emulates so Programma Programma	vo identical olies can be output poweries resista able Output ing range: 0	units. Refer connected er to a prog nce. Resista trise and Ou .0001~999.	r to instruct in Daisy cha rammed va nce range: utput fall sle 99 V/mS. or	in to synch ue. Prograi I~1000mΩ. w rate. A/mS.	ironize thei mming via t	r turn-on an	d turn-off. nication port				
USB, LAN. R5232/485, Optional (*17) (*20) Interfaces V	FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	 	Possible. To Power supp Limits the of Emulates so Programmi Programmi Profiles of u	vo identical olies can be output poweries resistal able Output ing range: 0 ing via comi	units. Reference on nected er to a progence. Resistatise and Ou.0001~999. munication eps can be serviced.	to instruct in Daisy char rammed va nce range: utput fall sle 99 V/mS. or ports or fro tored in 4 n	on manual iin to synch lue. Prograi I~1000mΩ. w rate. A/mS. nt panel. nemory celi	Ironize thei mming via t Programm	r turn-on an	d turn-off. nication port				
1.Vout programming accuracy (*16)	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		Possible. Tv Power supp Limits the c Emulates so Programma Programmi Profiles of u Activation	vo identical blies can be butput poweries resistal able Output ng range: 0 ng via comi up to 100 ste by comman	units. Refer connected er to a prog nce. Resista trise and Ou .0001~999. munication eps can be s d via comm	to instruct in Daisy charammed va nce range: atput fall sle 99 V/mS. or ports or fro tored in 4 n unication p	on manual in to synch ue. Program 1~1000mΩ. we rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. s. at panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.		
2.lout programming accuracy (*15)	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		Possible. Tv Power supp Limits the c Emulates so Programma Programmi Profiles of u Activation	vo identical blies can be butput poweries resistal able Output ng range: 0 ng via comi up to 100 ste by comman	units. Refer connected er to a prog nce. Resista trise and Ou .0001~999. munication eps can be s d via comm	to instruct in Daisy charammed va nce range: atput fall sle 99 V/mS. or ports or fro tored in 4 n unication p	on manual in to synch ue. Program 1~1000mΩ. we rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. s. at panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
3.Vout programming resolution 0.002% of rated output voltage. 4.lout programming resolution 0.002% of rated output current. 5.Vout readback accuracy 0.5% of rated output voltage. 6.lout readback accuracy (*15) 0.2% of rated output current. 7.Vout readback resolution of rated output 0.006% 0.006% 0.004% 0.003% 0.002% 0.001% 0.007% 0.005% 0.004% 0.002% 0.011% 0.007%	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 (*17) (*20) Interfaces)	 V	Possible. Tv Power supp Limits the c Emulates so Programma Programmi Profiles of u Activation	vo identical blies can be butput poweries resistal able Output ng range: 0 ng via comi up to 100 ste by comman	units. Refer connected er to a prog nce. Resista trise and Ot .0001~999. munication eps can be s d via comm	to instruct in Daisy cha rammed va nce range: atput fall sle 29 V/mS. or ports or fro tored in 4 n unication p	on manual in to synch ue. Program 1~1000mΩ. we rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. s. at panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
4.lout programming resolution	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Possible. Tv Power supp Limits the c Emulates so Programmi Programmi Profiles of t Activation 20 0.05% of ra	vo identical blies can be butput poweries resistal able Output ng range: 0 ng via comi up to 100 ste by comman	units. Reference units. Reference necessaria rise and Orono necessaria	to instruct in Daisy charammed vance range: utput fall sle 199 V/mS. or ports or fro tored in 4 nunication p	in manual in to synch lue. Prograi I~1000mΩ. w rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. Is. It panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
5.Vout readback accuracy 0.05% of rated output voltage. 6.lout readback accuracy (*15) 0.2% of rated output current. 7.Vout readback resolution of rated output	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)		Possible. Tv Power supp Limits the c Emulates so Programma Programma Programma Profiles of t Activation 20 0.05% of ra 0.1% of activ	vo identical blies can be butput poweries resista able Output ng range: 0 ng via comi up to 100 ste by comman 30 ted output ual output	units. Refei connected er to a prog nce. Resista trise and Or .0001~999.9 meps can be s d via comm 40 voltage.	to instruct in Daisy charammed vance range: utput fall sle 199 V/mS. or ports or fro tored in 4 nunication p	in manual in to synch lue. Prograi I~1000mΩ. w rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. Is. It panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
6.lout readback accuracy (*15) 0.2% of rated output current. 7.Vout readback resolution of rated output % 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.005% 0.004% 0.002% 0.011% 0.007%	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution	V	Possible. Tv Power supp Limits the c Emulates se Programmi Programmi Profiles of t Activation 20 0.05% of ra 0.1% of acti 0.002% of r	vo identical blies can be butput poweries resista able Output ng range: 0 ng via com up to 100 ste by comman 30 ted output ual output cated output	units. Refei connected er to a prog nce. Resista trise and Ot .0001~999. mentication eps can be s d via comm 40 voltage. current +0.2 t voltage.	to instruct in Daisy charammed vance range: utput fall sle 199 V/mS. or ports or fro tored in 4 nunication p	in manual in to synch lue. Prograi I~1000mΩ. w rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. Is. It panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
7.Vout readback resolution of rated output	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Wout programming resolution 4. lout programming resolution		Possible. Tv Power supp Limits the c Emulates se Programm Programmi Profiles of u Activation 20 0.05% of ra 0.1% of act 0.002% of r 0.002% of r	vo identical plies can be putput poweries resista able Output ng range: 0 ng via com up to 100 ste by comman 30 ted output ual output c ated output ated output ated output	units. Refei connected er to a prog nce. Resista rise and Ot. 0001~999: munication eps can be s d via comm 40 voltage. turrent +0.2 t voltage. t current.	to instruct in Daisy charammed vance range: utput fall sle 199 V/mS. or ports or fro tored in 4 nunication p	in manual in to synch lue. Prograi I~1000mΩ. w rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. Is. It panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. Jout programming resolution 4. lout programming resolution 5. Vout readback accuracy		Possible. Tv Power supp Limits the c Emulates se Programmi Programmi Programmi Profiles of t Activation 20 0.05% of ra 0.002% of r 0.002% of r 0.002% of r 0.002% of r	vo identical blies can be butput powe- butput powe- butput powe- butput powe- butput on grange: 0 ng via com ng via com go to 100 ste by comman 30 ted output vi aud output vi ated output ted output ted output ted output ted output ted output ted output	units. Refei connected er to a prog nec. Resista trise and 0. 0001–999. munication ed via comm 40 voltage. t voltage. t current. voltage.	to instruct in Daisy charammed vance range: utput fall sle 199 V/mS. or ports or fro tored in 4 nunication p	in manual in to synch lue. Prograi I~1000mΩ. w rate. A/mS. nt panel. nemory cell orts or fror	ronize their mming via t Programm s. Is. It panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
8.lout readback resolution of rated output current	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. Jout programming accuracy (*15) 3. Wout programming resolution 4. lout programming resolution	V	Possible. Tv Power supp Limits the c Emulates se Programmi Programmi Programmi Profiles of t Activation 20 0.05% of ra 0.002% of r 0.002% of r 0.002% of r 0.002% of r	vo identical blies can be butput powe- butput powe- butput powe- butput powe- butput on grange: 0 ng via com ng via com go to 100 ste by comman 30 ted output vi aud output vi ated output ted output ted output ted output ted output ted output ted output	units. Refei connected er to a prog nec. Resista trise and 0. 0001–999. munication ed via comm 40 voltage. t voltage. t current. voltage.	to instruct in Daisy charammed vance range: utput fall sle 199 V/mS. or ports or fro tored in 4 nunication p	ion manual in to synch use. Program In To Synch use. In To Synch use or In To Synch use or In To Synch use. Synch use or In To Synch use. Synch use of In To Synch use of In To Synch use. Synch use of In To Synch use of In To Synch use. Synch use of In To Synch use of In To Synch use. Synch use of In To	ronize their mming via t Programm s. Is. It panel.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.	1000	1500
	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. Jout programming resolution 4. lout programming resolution 5. Vout readback accuracy	V	Possible. Tv Power supp Limits the c Emulates sr Programmi Programmi Programmi Profiles of u Activation 20 0.05% of ract 0.002% of r 0.002% of r 0.002% of r 0.005% of ract 0.02% of ract 0.002% of ract 0.02% of r	vo identical olies can be output poweries resista able Output on grange: 0 ong via com up to 100 steb by comman 30 ted output v ual output v ated output ted output	units. Refei connected er to a prog nce. Resistat rise and O0. 0001–999. munication eps can be e d via comm 40 voltage. current.+0.2 t current. voltage. urrent.	to instruct in Daisy charammed vance range: utput fall sle 99 V/mS. or ports or fro tored in 4 n unication p	ion manual in to synch use. Program In To Synch use. In To Synch use or In To Synch use or In To Synch use. Synch use or In To Synch use. Synch use of In To Synch use of In To Synch use. Synch use of In To Synch use of In To Synch use. Synch use of In To Synch use of In To Synch use. Synch use of In To	ronize their mming via t Programm Is. It panel. 100 ent.	r turn-on an the communing via com	d turn-off. nication port munication	ports or fro	ont panel.		
	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 (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accurac		Possible. Tv Power supp Limits the c Emulates so Programmi Programmi Profiles of Activation 20 0.05% of ra 0.002% of r 0.002% of r 0.02% of r 0.02% of rat 0.2% of rate	vo identical plies can be putput power peries resista able Output no ng range: 0 ng via com ng via com ng to 100 sted output v ual output c ated output ted output ted output ted output ded output ded output ed output ded output	units. Refei connected er to a prog nce. Resista trise and 00001-999. munication eps can be s d via comm 40 voltage. turrent +0.2 t voltage. t current. voltage. urrent. 0.003%	to instruct in Daisy chair anamed va nammed va named va nge: utput fall sla g9 V/mS. or ports or fre tored in 4 m unication p 60 % of rated o	ion manual in to synch ue. Prograt I~100mΩ. I~100mΩ. In the panel. In t	oronize their mming via t Programm Is. it panel. 100 ent.	r turn-on an the communing via com	d turn-off. nication portruitment of the control of	300 0.004%	600 0.002%	0.011%	0.007%

GENESYS™ 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	20	30	40	60	80	100	150	200	300	600	1000	1500			
1.Foldback protection			Reset by AC	input recycl	e in autostar	t mode, by P	ower Switch	CV or Power L n, by OUTPUT	button, by r	ear panel or	by commun	ication.					
2.Over-voltage protection (OVF								ode, by Powe									
3.Over-voltage programming r		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 a				ed output vo													
5.Output under voltage limit (U								analog progi	ramming. Pre	eset by front	panel or co	mmunicatio	n port.				
6.Over temperature protection	1			the output.													
7. Output under voltage protect	tion (UVP)		Prevents ac Reset by AC	ljustment of input recycl	Vout below I e in autosta	imit. P.S out t mode, by f	put turns Of Power Switc	f during und h, by OUTPU	er voltage co T button, by	ndition. rear panel o	r by commu	nication.					
FRONT PANEL																	
1.Control functions			Multiple op	tions with 2	Encoders												
			Vout/lout/F	ower Limit n	nanual adjus	t											
			OVP/UVL/U	VP manual a	djust												
			Protection	Functions - C	VP, UVL,UVP	, Foldback, C	OCL, ENA, IL	C									
			Communic	ation Functio	ns - Selectio	n of LAN,IEE	E,RS232,RS	485,USB or O	ptional comr	nunication i	nterface.						
				OFF. Front P													
			Communic	ation Functio	ns - Selectio	n of Baud Ra	ite, Address	, IP and comr	nunication la	inguage.							
								ramming, 5V/		programmii	ng						
			Analog Mo	nitor Functio	ns - Selectio	n of Voltage,	/Current Mo	nitoring 5V/1	10V.								
2.Display			Vout: 4 digi	ts, accuracy:	0.05% of rate	ed output vo	ltage +/-1 c	ount.									
				s, accuracy: (
3. Front Panel Buttons Indicatio	ns		OUTPUT OF	N, ALARM, PR	EVIEW, FINE	COMMUNIC	ATION, PRO	TECTION,CO	NFIGURATIO	N, SYSTEM,	SEQUENCER	l.					
4. Front Panel Display Indicatio	ns		Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (commun RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.										unication),				
ENVIRONMENTAL CONDITION	IS																
1.Operating temperature			0~50°C, 100	0% load.													
2.Storage temperature			-30~85°C														
		%		1/	-4!1												
3.Operating humidity		-	20~90% RH (no condensation).														
4.Storage humidity		%	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).														
5.Altitude (*17)			Operating:	10000ft (300	0m), output	current dera	ting 2%/100	m or Ta dera	ting 1°C/100r	n above 200	00m. Non op	erating: 4000	00ft (12000m	1.			
MECHANICAL			_														
1.Cooling			Forced air c	ooling by int	ernal fans. A	irflow direct	ion: From f	ont panel to	power suppl	y rear.							
2.Weight		kg	Less than 8	.5Kg.													
3.Dimensions (WxHxD)		mm		3.6, D: 486.5 3.6, D: 598.1				r), er). Refer to O	utline drawir	ng.							
4.Vibration			MIL-810G, r	nethod 514.6	, Procedure	l, test condit	ion Annex (- 2.1.3.1									
5.Shock			Less than 2	s than 20G, half sine, 11mS. Unit is unpacked.													
SAFETY/EMC																	
1.Applicable standards:	Safety		III 61010 1	CSA22.2 No.	51010-1 IEC4	1010-1 FN61	1010-1										
i.nppiicable stallualus:	Salety							10 /			Daniel I						
1.1. Interface classification								J9 (commun									
								J1, J2, J3, J4, J 5, J6, J7 & J9 (azardous.				
			Input - Gro	und: 2835VD	C 1min.							-					
			Output & J8	100V Models 3 (sense) - J1, und: 2835VD	J2, J3, J4, J5,	put & J8 (ser J6, J7 & J9 (c	nse), J1, J2, J ommunicat	3, J4, J5, J6, J7 ion options):	7 & J9 (comm 850VDC 1mi	unication o n, Output &	ptions): 4242 J8 (sense) - 0	VDC 1min, Ground: 1500	VDC 1min,				
1.2 Withstand voltage			Output & J8		J2, J3, J4, J5,			J3, J4, J5, J6, ion options):									
			Output & J8	t≤1500V Mod 3 (sense) - J1, und: 2835VD	J2, J3, J4, J5,	Output & J8 J6, J7 & J9 (c	(sense), J1, ommunicat	12, J3, J4, J5, J ion options):	6, J7 and J9 (2000VDC 1m	communica in, Output &	tion options & J8 (sense) -	ion options): 4000VDC 1min, , J8 (sense) - Ground: 3280VDC 1min.					
1.3.Isolation resistance			100Mohm a	at 25°C, 70%F	RH. Output to	Ground 50	00VDC		-								
2.EMC standards (*18)								CC Part 15-A.	VCCI-A.								
2.1.Conducted emission								nd H4, FCC Pa		I-A							
2.2.Radiated emission				4-3 Industria			table i i.J a	, , , , , , , , , ,	15 /1, 100		-						
z.z.nauidleu emission			JILC/EN0120	H-5 IIIUUSTII	environme	III											

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.

- *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-913IC (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.

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

 *14: For 10V model, the ripple is measured at 20-100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz.
- voltage and rated output current. B.W 5Hz~1MHz.
 *15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
- *16: Measured at the sensing point. *17 Max. ambient temperature for IEEE is 40°C.
- *18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

GENESYS[™] **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	20	30	40	50	60	80	100	150	200	300	400	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
					65Vac, 47				100	.50	200	500	100	300	000
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)								/400/415V	ac)						
1		3-Phase,	480V mod	lels: 342~5	28Vac, 47	'~63Hz (Co	vers 380/-	400/415/4	40/460/480	0Vac)					
2. Maximum Input current at 3-Phase, 200V models		35A @ 20													
100% load	_	18.4A @ 3													
3-Phase, 480V models		18.4A @ 3													
3.Power Factor (Typ) 4.Efficiency (Typ) (*5) (*22)	%	0.94 @ 20 89 (*21)		, rated out	tput powe 91	er. 91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)	70 A	Less than		91	91	91	91	91	91	91	91	92	92	91	92
6.AC line phase imbalance	%	< 5%	100/1												
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)				out voltag] 30	00	00	100	150	200	300	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	PPM/°C	50PPM/°	C from rate	ed output	voltage, f	ollowing :	30 minute	s warm-up).						
6.Temperature stability									o. Constant		l & temp.				
7. Warm-up drift							1		ving powe						
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11) Full load (*11)	mS mS	30 50	30 50	30 80	30 80	50 80	50 80	50 100	50 100	50 100	50 100	50 100	100 150	100 200	100 200
10.Down-prog.response time: No load (*11)	mS mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
'									r a load ch						
11.Transient response time	mS	10~100%	, Local ser	nse. Less tl	han 1mS, f	for models	up to and	dincluding	100V. 2m	S, for mod	lels above	100V.		,	
12.Start up delay	Sec	Less than	7 Sec												
CONSTANT CURRENT MODE															
1.Max. Line regulation (*7)		0.05% of	rated out	out curren	ıt.										
2.Max. Load regulation (*13)		0.08% of	rated out	out curren	nt.										
3.Ripple r.m.s. @ 10% rated voltage. B.W 5Hz~1MHz. (*14		1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C) mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5.Temperature coefficient	PPM/°C	10V~100							nutes warn utes warm						
6.Temperature stability									o. Constant		l & tempe	rature			
•									minutes f						
7. Warm-up drift		150V~60	0V: Less th	nan +/-0.15	5% of rate	d output c	urrent ove	er 30 minu	tes followi	ing power	on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTP	JT)												
1.Vout voltage programming				~10V, user	r selectabl	e. Accurad	y and line	earity: +/-0	.15% of rat	ed Vout.					
2.lout voltage programming (*15)		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.													
3.Vout resistor programming		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.													
4.lout resistor programming (*15)									ity: +/-0.59	% of rated	lout.				
5.Output voltage monitor		0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.													
6.Output current monitor (*15)		0~5V or 0)~10V, use	r selectab	le. Accura	cy: +/-0.5	%. Of rated	d lout.							
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP															
1. Power supply OK #1 signal			,						it Off: Off.					Current: 1	0mA.
2. CV/CC signal									m Voltage						
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal									lry contact On. Local:						t· 10m Δ
5. ENABLE/DISABLE signal									or short, 2					cullell	a romA.
6. INTERLOCK (ILC) control									: 0~0.6V or						
7. Programmed signals									mum sink				7V zener)		
8. TRIGGER IN / TRIGGER OUT signals		Maximu	m low lev	vel input	voltage =	= 0.8V,Mi	nimum h	igh level	input volt	tage = 2.	5V, Maxir	num high	n level inp	out = 5V p	ositive
9. DAISY_IN/SO control signal					nimum. T /2~30V or			ı, Min del	ay betwe	en 2 puls	es ims.				
9. DAISY_IN/50 control signal 10. DAISY_OUT/PS_OK #2 signal		-			dance)=Fa		с.								
		. 5,-01	., 57 (5000	r											
FUNCTIONS AND FEATURES	T	D11	U-A-C	- (4) t. l	1.000	-ia- F				F4					
1. Parallel operation 2. Series operation			Up to four vith Factor		cai GSP ur	iits. For m	ore powe	piease co	nsult with	ractory.					
		i Consult V	vitti racto												
3. Daisy chain			nnlies can	he conne	cted in Da	aisy chain	to synchri	onize their	furn-on a	nd furn-a	ff				
		Power su			ected in Da							the front n	anel.		
4. Constant power control 5. Output resistance control		Power su Limits the	e output p	ower to a	proggram	nmed valu	e. Prograr	nming via	turn-on a the comm ing via the	unication	ports or t			el.	
Constant power control Output resistance control		Power su Limits the Emulates Program	series res	ower to a istance. Re tput rise a	proggram esistance i nd Output	nmed valu range: 1~ t fall slew	e. Prograr 1000mΩ. I	mming via Programm	the comm	unicatior commun	ports or t	orts or the	front pane		the
4. Constant power control 5. Output resistance control 6. Slew rate control		Power su Limits the Emulates Program commun	series res mable Out ication po	oower to a istance. Re tput rise a orts or the	proggram esistance i nd Output front pane	nmed valu range: 1~ t fall slew el.	e. Prograr 1000mΩ. I rate. Progr	mming via Programm ramming r	the comming via the ange: 0.00	commun 01~999.9	ports or to lication po 9 V/mSec.	orts or the or A/mSe	front pand c. Program	ming via	
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		Power su Limits the Emulates Program commun	series res mable Out ication po	oower to a istance. Re tput rise a orts or the	proggram esistance i nd Output front pane	nmed valu range: 1~ t fall slew el.	e. Prograr 1000mΩ. I rate. Progr	mming via Programm ramming r	the comm	commun 01~999.9	ports or to lication po 9 V/mSec.	orts or the or A/mSe	front pand c. Program	ming via	
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Power su Limits the Emulates Program commun	series res mable Out ication po	oower to a istance. Re tput rise a orts or the	proggram esistance i nd Output front pane	nmed valu range: 1~ t fall slew el.	e. Prograr 1000mΩ. I rate. Progr	mming via Programm ramming r	the comming via the ange: 0.00	commun 01~999.9	ports or to lication po 9 V/mSec.	orts or the or A/mSe	front pand c. Program	ming via	
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)	 V	Power su Limits the Emulates Program commun Profiles o	series res mable Out ication po f up to 10	oower to a istance. Re tput rise a orts or the 0 steps ca	proggram esistance i nd Output front pand n be store	nmed valu range: 1~ t fall slew el. d in 4 mer	e. Program 1000mΩ. I rate. Progr mory cells.	mming via Programm ramming r . Activatio	the comm ing via the range: 0.00 n by comm	nunication commun 01~999.9 nand via t	ports or to lication po 9 V/mSec. the commu	orts or the	front pand c. Program ports or by	the front	panel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Power su Limits the Emulates Program commun Profiles o	series res mable Out ication po f up to 100 20	istance. Re tput rise a orts or the 0 steps ca	proggram esistance i nd Output front pane n be store 40	nmed valu range: 1~ t fall slew el. d in 4 mer	e. Program 1000mΩ. I rate. Progr mory cells.	mming via Programm ramming r . Activatio	the comm ing via the range: 0.00 n by comm	nunication commun 01~999.9 nand via t	ports or to lication po 9 V/mSec. the commu	orts or the	front pand c. Program ports or by	the front	panel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Power su Limits the Emulates Program commun Profiles of 0.05% of 0.3% of ro	series res mable Out ication po f up to 10 20 rated outp	oower to a istance. Retput rise a orts or the 0 steps cal	proggram esistance i nd Output front pane n be store 40	nmed valu range: 1~ t fall slew el. d in 4 mer	e. Program 1000mΩ. I rate. Progr mory cells.	mming via Programm ramming r . Activatio	the comm ing via the range: 0.00 n by comm	nunication commun 01~999.9 nand via t	ports or to lication po 9 V/mSec. the commu	orts or the	front pand c. Program ports or by	the front	panel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RE3232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15)		Power su Limits the Emulates Program commun Profiles o 10 0.05% of 0.3% of ro 0.002% o	series res mable Out ication po f up to 10 20 rated output f rated output	istance. Returning a stance of the control of the c	proggram esistance i nd Output front pane n be store 40 e	nmed valu range: 1~ t fall slew el. d in 4 mer	e. Program 1000mΩ. I rate. Progr mory cells.	mming via Programm ramming r . Activatio	the comm ing via the range: 0.00 n by comm	nunication commun 01~999.9 nand via t	ports or to lication po 9 V/mSec. the commu	orts or the or A/mSe	front pand c. Program ports or by	the front	panel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Power su Limits the Emulates Programs commun Profiles of 0.05% of 0.3% of ro 0.002% of 0.002% of 0.005% of	e output p series res mable Out ication po f up to 10 20 rated outp ated outp f rated ou f rated ou rated out rated ou	ower to a istance. Reference Referen	proggram esistance i nd Output front pane n be store 40 ge	nmed valu range: 1~ t fall slew el. d in 4 mer	e. Program 1000mΩ. I rate. Progr mory cells.	mming via Programm ramming r . Activatio	the comm ing via the range: 0.00 n by comm	nunication commun 01~999.9 nand via t	ports or to lication po 9 V/mSec. the commu	orts or the or A/mSe	front pand c. Program ports or by	the front	panel.
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming resolution 4.lout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy	V	Power su Limits the Emulates Programs commun Profiles of 0.05% of 0.3% of ro 0.002% of 0.002% of 0.05% of 0.2% of ro 0.2% of ro	e output p series res mable Out ication po f up to 10 20 rated outputed o	ower to a istance. Ret tput rise a orts or the 0 steps call and voltage ut current tput voltage tput voltage to true true true to true true true true true true true true	proggram esistance i nd Output front pane n be store 40 ee	nmed valurange: 1~ t fall slew el. d in 4 mer	e. Prograr 1000mΩ. I rate. Progr mory cells.	nming via Programm ramming r Activatio	the comming via the range: 0.00 n by comm	nunicatior e commur 01~999.9 nand via ti	ports or t pication po 9 V/mSec. he commu	orts or the or A/mSe unication p	front pand c. Program ports or by 400	the front	600
4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Power su Limits the Emulates Programs commun Profiles of 0.05% of 0.3% of ro 0.002% of 0.002% of 0.005% of	e output p series res mable Out ication po f up to 10 20 rated outp ated outp f rated ou f rated ou rated out rated ou	ower to a istance. Ret tout rise a orts or the 0 steps call and tour voltage ut current tout voltage tout current tout voltage to tour voltage tour	proggram esistance i nd Output front pane n be store 40 ee ent ge 0.003%	nmed valurange: 1~ t fall slew el. d in 4 mer 50	e. Program 1000mΩ. I rate. Progr mory cells.	mming via Programm ramming r Activatio 80 0.002%	the comm ing via the range: 0.00 n by comm	nunication commun 01~999.9 nand via t	ports or to lication po 9 V/mSec. the commu	orts or the or A/mSe	front pand c. Program ports or by	the front	panel.

GENESYS[™] **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)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 2							ac)						
impacronage/neqrs phase/s time i croana (1/		3-Phase, 4								OVac)					
2. Maximum Input current at 3-Phase, 200V model		52.5A @ 20													
100% load		27.6A @ 38													
3-Phase, 480V model	5:	27.6A @ 38 0.94 @ 200		rated outr	ut power		-		-		-		-		-
4.Efficiency (Typ) (*5) (*22)	%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)	А	Less than 150A													
6.AC line phase imbalance	%	< 5%													
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of ra	ited outpi	ıt voltage											
2.Max. Load regulation (*8)		0.01% of ra	ted outpu	ıt voltage	+5mV										
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								tlina lasa	10+0mm				
6.Temperature stability 7. Warm-up drift		0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. Less than 0.05% of rated output voltage+2mV over 30 minutes following power on.													
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
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											t current. (Output se	t-point:
12Start up delay	Sec	Less than 7				, models	up to unu	meraaning	100112	5,10111100					
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 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. B.W 5Hz~1MHz. (TA 25°	() mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6
5.Temperature coefficient	PPM/°C	10V~100V 150V~600		M/°C from I/°C from r											
6.Temperature stability		0.01% of ra									l & tempe	rature.			
7. Warm-up drift		10V~100V 150V~600													
				11 +/-0.137	ourated	output co	inenii ove	1 30 1111110	tes ioliowi	ng power	OII.				
ANALOG PROGRAMMING AND MONITORING (ISOLATI	_			101/	1	_			150/ 6 -	11/					
1.Vout voltage programming 2.lout voltage programming (*15)		0~100%, 0													
3.Vout resistor programming		0~100%, 0									Vout				
4.lout resistor programming (*15)		0~100%, 0													
5.Output voltage monitor (*23)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout.													
6.Output current monitor (*15) (*23)		0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. of rated lout.													
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP		1-	-												
1. Power supply OK #1 signal		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1													
2. CV/CC signal		CVIICC MA-	.: 0											Current:	10mA.
				n collecto	r. CC mod	e: On. CV	mode: Off	. Maximu	m Voltage	: 30V, Max	imum Sin	k Current:	10mA.		10mA.
LOCAL/REMOTE Analog control LOCAL/REMOTE Analog signal		Enable/Dis	sable anal	n collecto og progra	r. CC mod mming co	e: On. CV ontrol by e	mode: Off	. Maximui ignal or d	m Voltage ry contact	: 30V, Max :. Remote:	imum Sin 0~0.6V o	k Current: r short. Lo	10mA. cal: 2~30\	/ or open.	
3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal			sable anal	n collecto og progra g control n	r. CC mod mming co nonitor sig	e: On. CV ontrol by e gnal. Oper	mode: Off electrical s n collector	. Maximui ignal or d . Remote:	m Voltage ry contact On. Local:	: 30V, Max :. Remote: Off. Maxir	imum Sin 0~0.6V oi num Volta	k Current: r short. Lo age: 30V, N	10mA. cal: 2~30V laximum S	/ or open.	
4. LOCAL/REMOTE Analog signal		Enable/Dis	sable analogramming sable PS o	n collector og progra g control n utput by e	r. CC mod mming co nonitor sig electrical s	e: On. CV ontrol by e gnal. Oper signal or d	mode: Off electrical s n collector ry contact	. Maximui ignal or d . Remote: t. 0~0.6V o	m Voltage ry contact On. Local: or short, 2	: 30V, Max :. Remote: Off. Maxir ~30V or o	imum Sin 0~0.6V oi num Volta pen. User :	k Current: r short. Lo age: 30V, N selectable	10mA. cal: 2~30V laximum S e logic.	/ or open.	
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal	 	Enable/Dis analog pro Enable/Dis Enable/Dis Two open	sable analogramming sable PS of sable PS of drain prog	n collector og progra g control n utput by e utput by e grammabl	r. CC mod mming co nonitor sig electrical s electrical s e signals.	e: On. CV i ontrol by e gnal. Oper signal or d signal or d Maximum	mode: Off electrical s n collector ry contact ry contact n voltage 2	. Maximui ignal or d . Remote: t. 0~0.6V o t. Remote: 25V, Maxir	m Voltage ry contact On. Local: or short, 2- : 0~0.6V or num sink	: 30V, Max :. Remote: Off. Maxin ~30V or o r short. Lo current 10	imum Sin 0~0.6V or mum Volta pen. User s cal: 2~30V 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S e logic. 7V zener)	/ or open. Sink Currer	nt: 10mA.
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control	 	Enable/Dis analog pro Enable/Dis Enable/Dis Two open Maximum	sable analogramming sable PS of sable PS of drain prog low level	n collector og progra g control n utput by e utput by e grammabl input volta	r. CC mod mming co nonitor sig electrical s electrical s e signals. age = 0.8\	e: On. CV ontrol by e gnal. Oper signal or d signal or d Maximum //Minimur	mode: Off electrical s n collector ry contact ry contact n voltage 2 n high lev	. Maximul ignal or d . Remote: t. 0~0.6V o t. Remote: 25V, Maximel input vo	m Voltage ry contact On. Local: or short, 2- : 0~0.6V or mum sink o	: 30V, Max :. Remote: Off. Maxin ~30V or o r short. Lo current 10	imum Sin 0~0.6V or mum Volta pen. User s cal: 2~30V 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S e logic. 7V zener)	/ or open. Sink Currer	nt: 10mA.
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE Signal 6. INTERLOCK (ILC) control 7. Programmed signals		Enable/Dis analog pro Enable/Dis Enable/Dis Two open	sable analogramming sable PS of sable PS of drain prod low level ninimum.	n collector og progra g control n utput by e utput by e grammabl input volt: Tr,Tf=1us N	r. CC mod mming co nonitor sig electrical s electrical s e signals. age = 0.8\ Maximum,	e: On. CV pontrol by egnal. Oper gnal. Oper gnal or d gignal or d Maximum J, Minimur , Min dela	mode: Off electrical s n collector ry contact ry contact n voltage 2 m high lev y betweer	. Maximul ignal or d . Remote: t. 0~0.6V o t. Remote: 25V, Maximel input vo	m Voltage ry contact On. Local: or short, 2- : 0~0.6V or mum sink o	: 30V, Max :. Remote: Off. Maxin ~30V or o r short. Lo current 10	imum Sin 0~0.6V or mum Volta pen. User s cal: 2~30V 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S e logic. 7V zener)	/ or open. Sink Currer	nt: 10mA.
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 Maximum tw=10us m	sable analogramming sable PS of sable PS of drain prog low level ninimum.	n collector og progra g control n utput by e utput by e grammabl input volta Tr,Tf=1us N 2: 0~0.6V/2	r. CC mod mming cc nonitor sign electrical selectrical	e: On. CV ontrol by e gnal. Oper signal or d signal or d Maximum /, Minimur , Min dela	mode: Off electrical s n collector ry contact ry contact n voltage 2 m high lev y betweer	. Maximul ignal or d . Remote: t. 0~0.6V o t. Remote: 25V, Maximel input vo	m Voltage ry contact On. Local: or short, 2- : 0~0.6V or mum sink o	: 30V, Max :. Remote: Off. Maxin ~30V or o r short. Lo current 10	imum Sin 0~0.6V or mum Volta pen. User s cal: 2~30V 00mA (Shu	k Current: r short. Lo age: 30V, M selectable / or open. unted by 2	10mA. cal: 2~30V laximum S e logic. 7V zener)	/ or open. Sink 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														wer Limit t panel or by		
2.Over-voltage protection (OVP)			Output sl	nut-down										mmunicati		
3.Over -voltage programming ra		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 ac			+/-1% of rated output voltage													
5.Output under voltage limit (UV	L)		Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port. Shuts down the output. Auto recovery by autostart mode.													
6.Over temperature protection	(I)							art mode.							_	
7. Output under voltage limit (UV	/L)			adjustme												
8. Output under voltage protecti	on (UVP)		Prevents mode, by	adjustmei Power Sw	nt of Vout vitch, by C	below lin	nit. P.S out utton, by r	put turns (ear panel	Off during or by com	g under vo municatio	ltage con on.	dition. Res	set by AC i	input recyc	cle in auto	start
FRONT PANEL																
1.Control functions			Multiple	options w	ith 2 Enco	ders										
			Vout/lout	t/Power Li	imit manu	ıal adjust										
			OVP/UVL	/UVP man	ual adjus	t										
							oldback, (
							of LAN,IEE	E,RS232,R	S485,USB	or Option	ial commu	inication i	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 5 V/10 V 5 V/10 V programming 5 V/10 V 5 V													
			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.													
2.Display							or voitage. I output vo			y 3 V/ 1UV.						
2.Display							utput curr									
3.Front Panel Buttons Indications										N CONFIG	URATION	SYSTEM	SEQUENC	FR		
			OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.													
4. Front Panel Display Indications	Voltage, Current, Power, CV, CC, 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, 1	00% load												
2.Storage temperature			-30~85°C													
3.Operating humidity %				20~90% RH (no condensation).												
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).												2000m).			
			1-1	,	(=====,,,											
MECHANICAL		1	1													
1.Cooling					oy interna	Il fans. Air	flow direc	tion: from	Front par	nel to pow	er supply	rear				
2.Weight	GSP 10kW	kg	Less than													
3.Dimensions (WxHxD)	GSP 10kW	mm					s and busb s and busb			relief) (Ref	er to Outli	ne drawin	g).			
2.Weight	GSP 15kW	kg	Less than													
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H	H: 132.5, D): 640 (Inc	luding bu	sbars and sbars and	busbars c	over, and		f) (Refer to	Outline	drawing).			
4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, 1	test condit	ion Anne	C - 2.1.3.	1						
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.								
SAFETY/EMC																
1.Applicable standards:	Safety		UL61010-	1, CSA22.2	2 No.L610	10-1, IECL	51010-1, EN	NL61010-1								
1.1. Interface classification			Vout≤50\	/ Models:	Output, J	1, J2, J3, J4	, J5, J6, J7,	J8 (sense)	& J9 (com	municatio	on options	are Non	Hazardou tion ontio	IS.	n Hazardo	1115
1.2 Withstand voltage			60≤Vout≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Haza Vout≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1n Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242V Output & J8 (sense) – J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min.							DC 1min, 4242VDC	1min,					
1.3 Insulation resistance			GSP10kW	/15kW: 60	Mohm at	25°C, 709	6RH. Outp	ut to Gro	und 500\	/DC						
2.Conducted emmision							, Annex H				I-A.					
3.Radiated emission			+				, Annex H					١.				
4. EMC compliance	EMC(*18)		IEC/EN61								.,					
	1															

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.

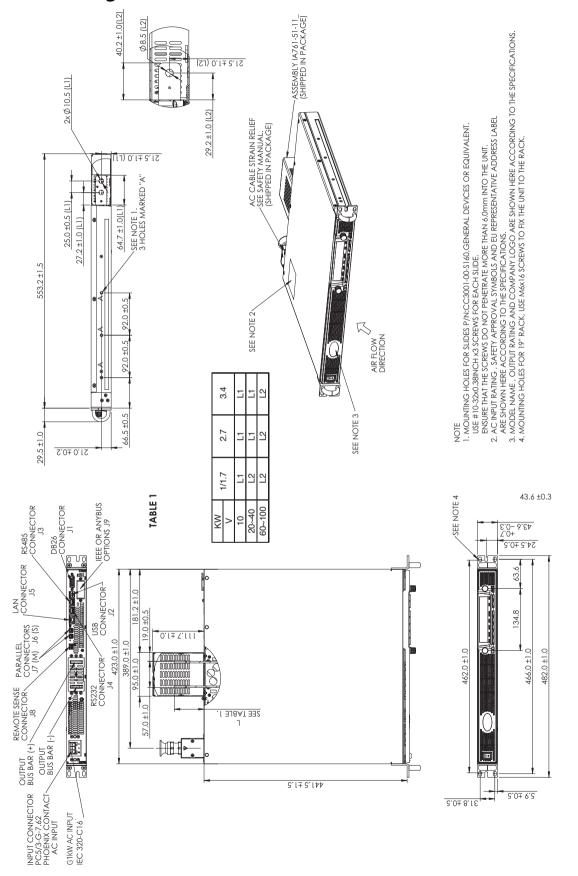
 119: Max. ambient temperature for using IEEE is 40°C.

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

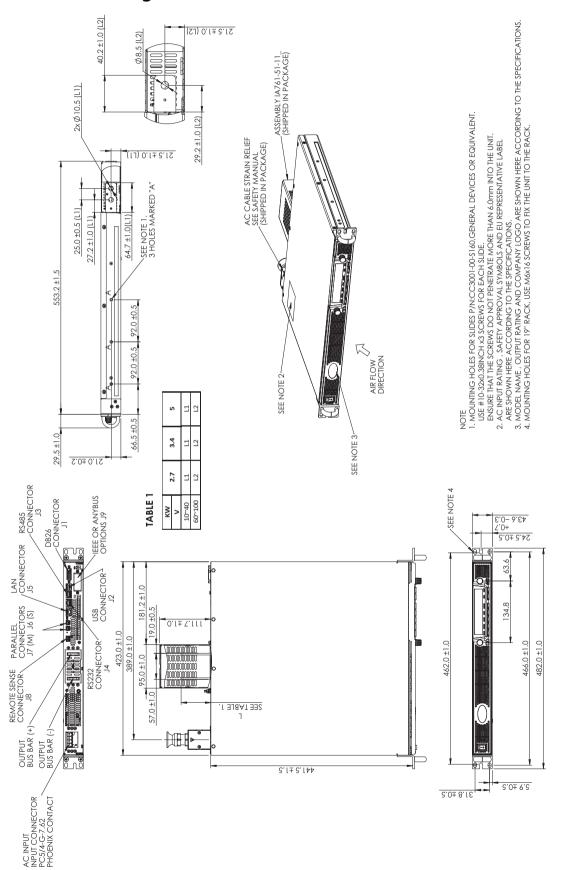
 120: GSP15kW For 10V model only: Max. output current for using IEEE is 800A up to 40°C and 1350A up to 30°C.

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

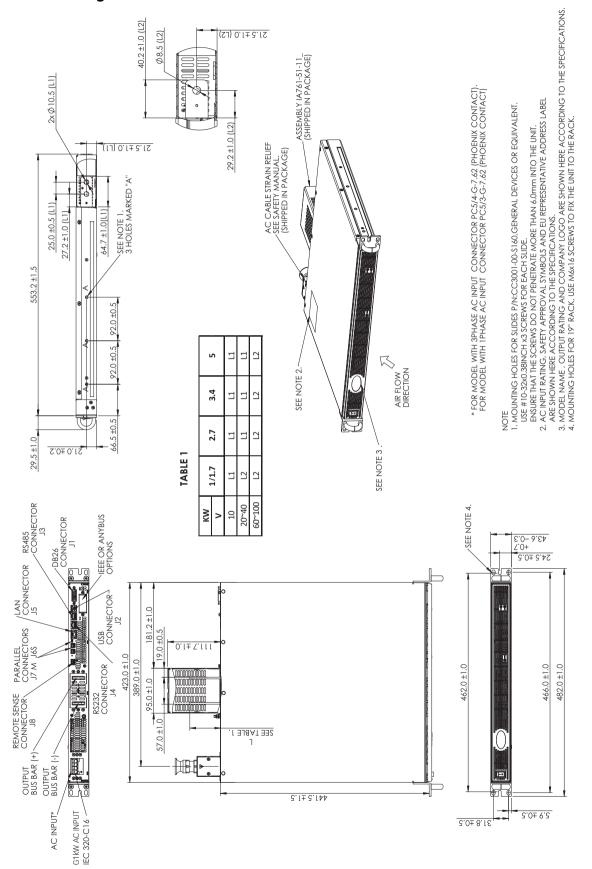
Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



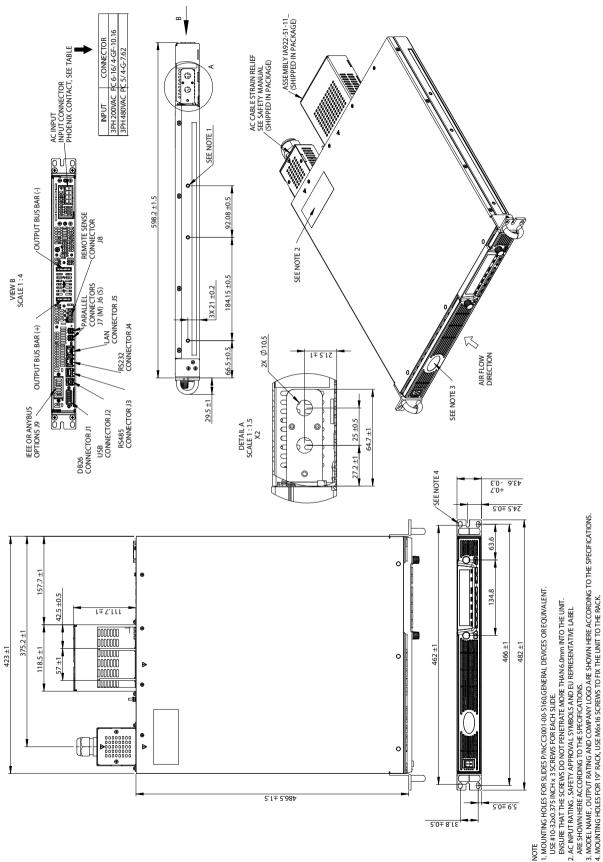
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



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

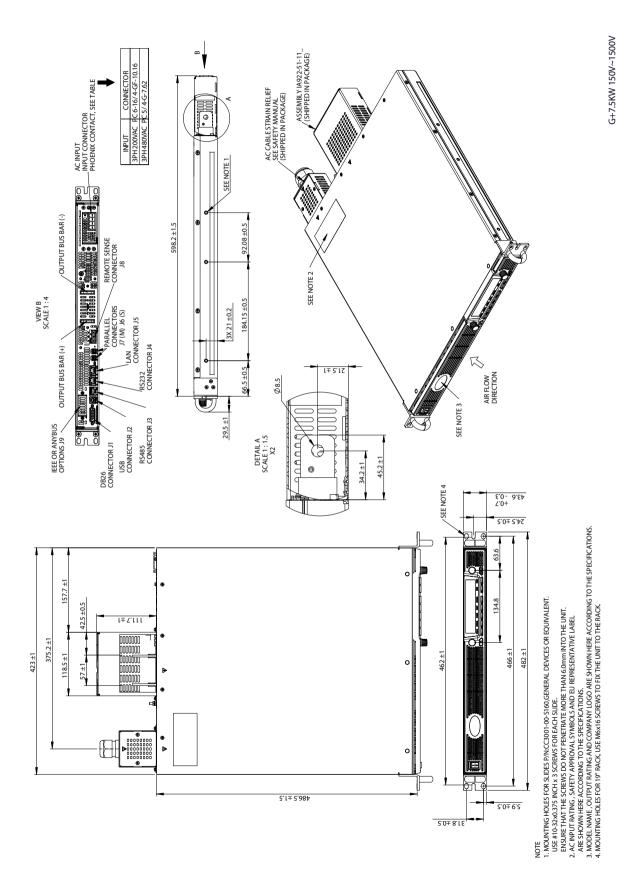


Outline Drawing GENESYS™ G7.5kW - LV (20V-100V) 3-Phase

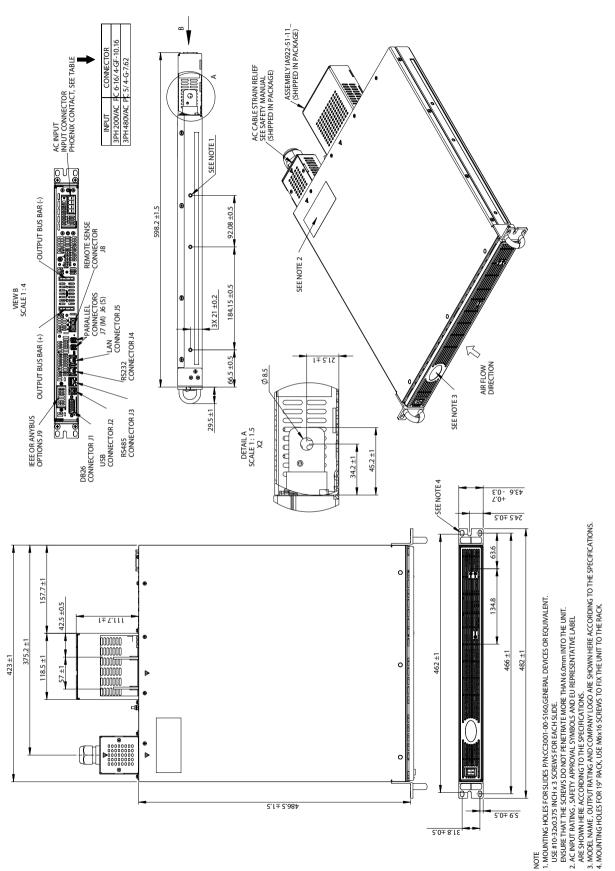


G+7.5KW 20V~100V

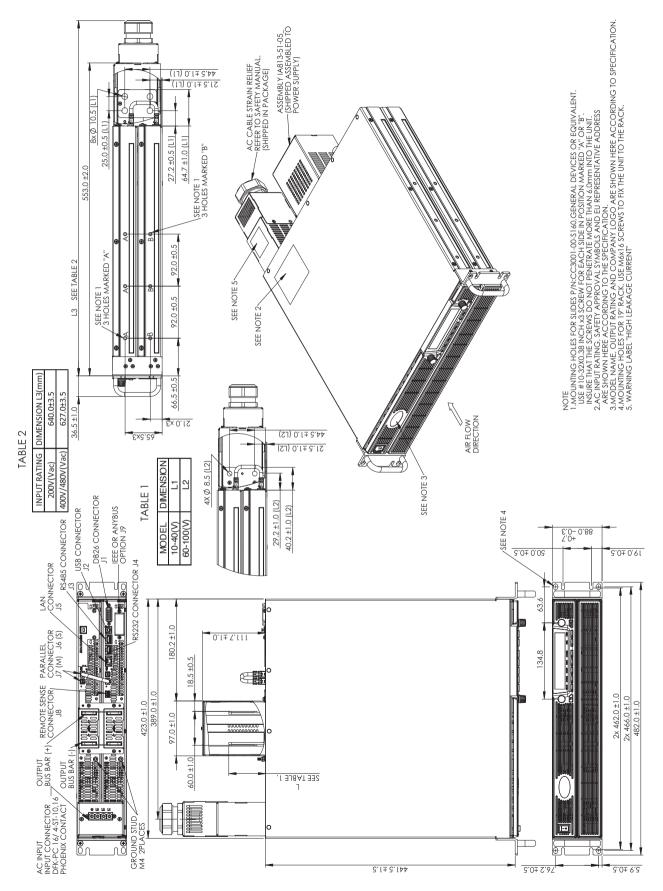
Outline Drawing GENESYS[™] G7.5kW - HV (150V-1500V) 3-Phase



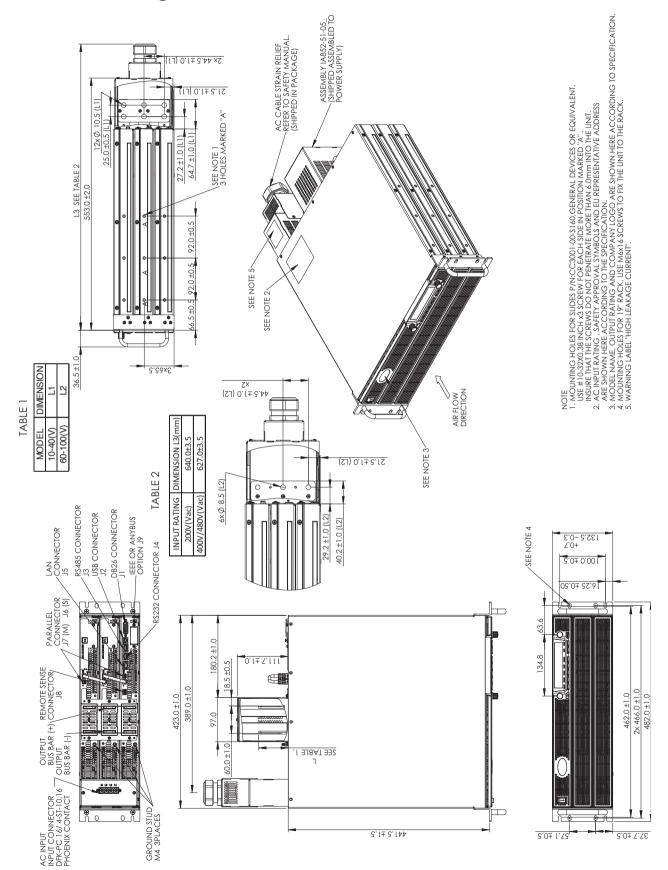
Outline Drawing GENESYS[™] GB7.5kW ATE Version



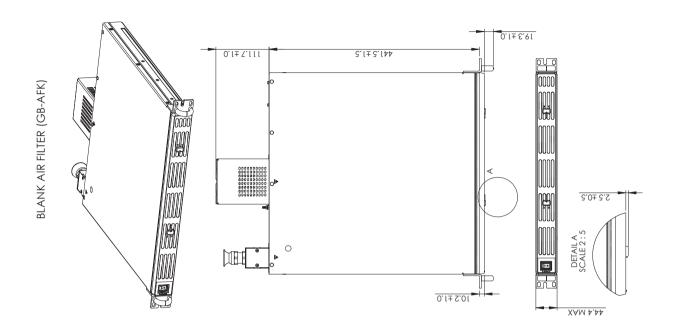
Outline Drawing GENESYS™ GSP10kW

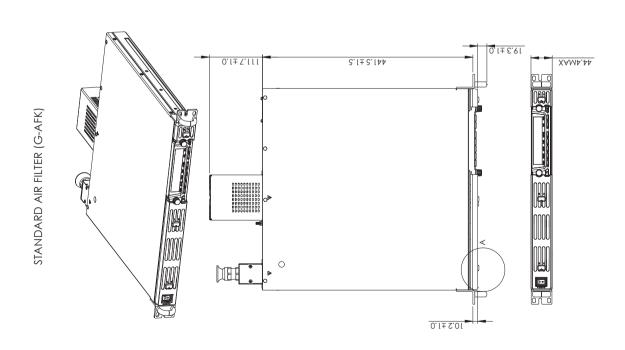


Outline Drawing GENESYS™ GSP15kW



Outline Drawing **G**ENESYS[™] Air Filter Kit





Front Panel Air Filter Assembly

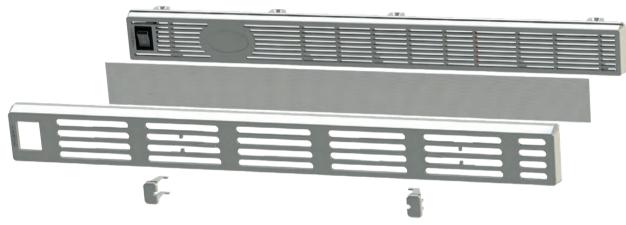
Front panel dust cover is available for dusty air environment applications

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)

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