





G≠NESYS _™ G Series

Programmable DC Power Supplies

Half-Rack 1kW/1.5kW in 1U Height

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 (L)XI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- · Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- · Fan speed controlled by ambient temperature and load
- Certified LabWindows™/CVI, LabVIEW™, and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- · Five year warranty

Applications

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.
- 8. 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



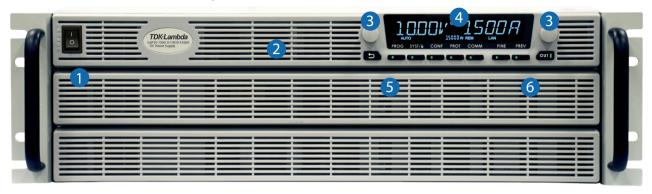
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP10kW Rear Panel Description



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

GSP15kW Front Panel Description



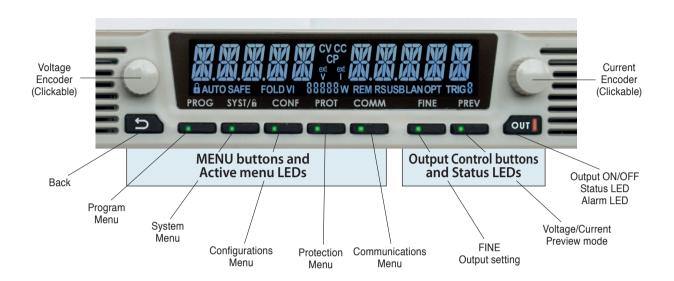
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

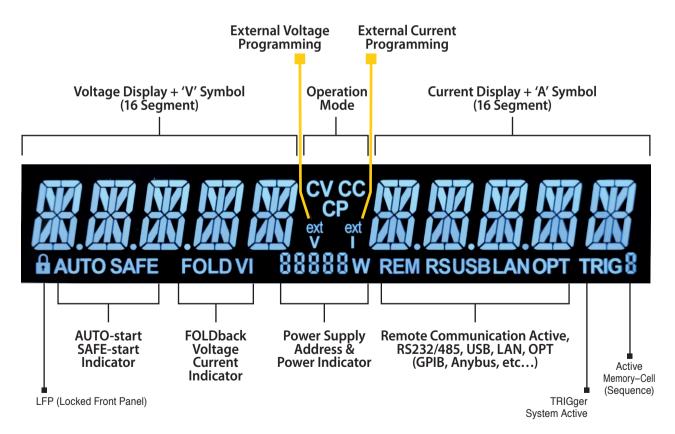


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

\$\\ \text{1000r} \text{50008} \tag{1}\$\$ Standard & Blank - zero stacked up to 12 units \$\\ \text{1000r} \text{50008} \tag{1}\$\$ \$\\ \text{1000r} \text{50008} \tag{1}\$\$

Standard Unit - zero stacked up to 12 units

Series operation

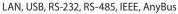
Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

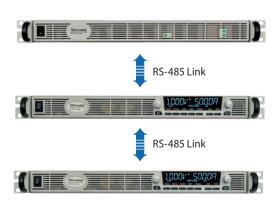
Multi-Drop Remote Programming via Communication Interface

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.





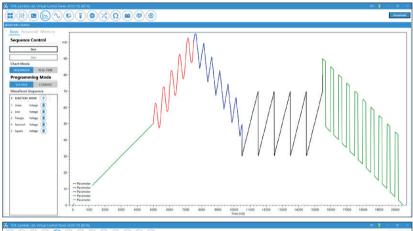


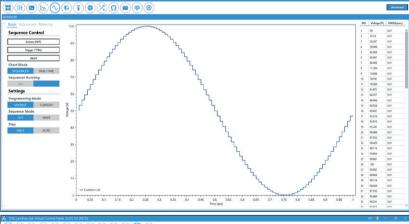
Graphical User Interface

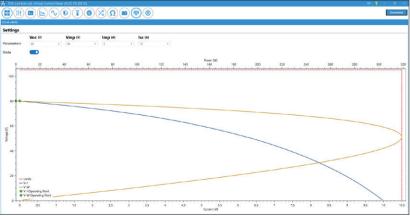
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 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.

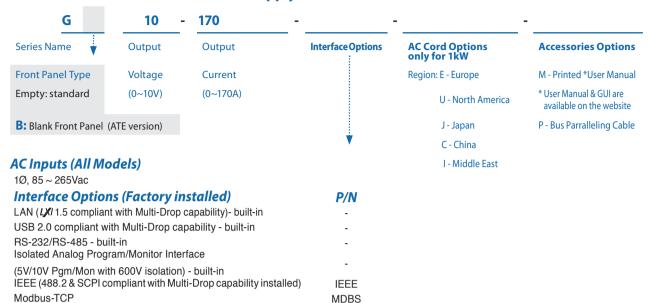
GUI Waveform Profile Generator







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



ECAT

IS420

Models 1kW

(4mA-20mA with 600V isolation)

EtherCAT

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

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

Isolated Analog Current Program/Monitor Interface

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

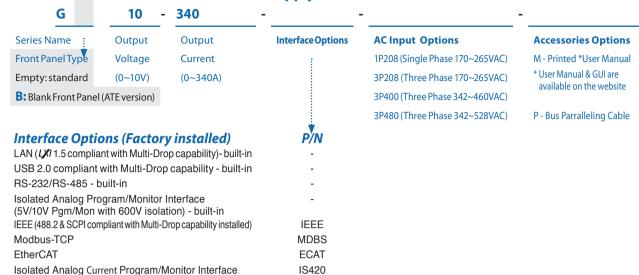
3. Bus Paralleling cable

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

4. User Manual

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Printed User Manual	G/M			

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



Models G2.7kW

(4mA-20mA with 600V isolation)

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

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

Models G3.4kW

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

Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G80-42	0~80V	0~42	3360
G100-34	0~100V	0~34	3400
G150-22.5	0~150V	0~22.5	3375
G300-11.5	0~300V	0~11.5	3450
G600-5.6	0~600V	0~5.6	3360

Accessories

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

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

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

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

Daisy-chain up to 31 **GENESYS**[™] power supplies.

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

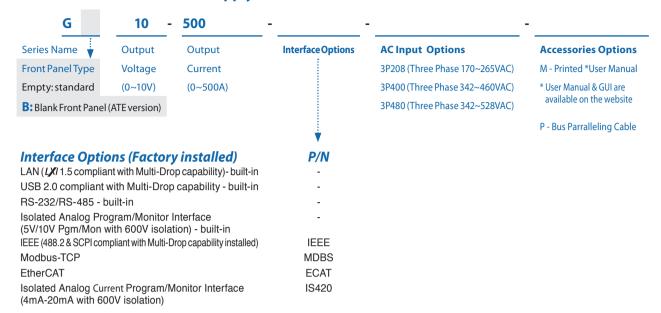
3. Bus Paralleling cable

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

4. User Manual

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



Models 5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Mc
G10-500	0~10V	0~500	5000	G1
G20-250	0~20V	0~250	5000	G1:
G30-170	0~30V	0~170	5100	G2
G40-125	0~40V	0~125	5000	G3
G50-100	0~50V	0~100	5000	G4
G60-85	0~60V	0~85	5100	G5
G80-65	0~80V	0~65	5200	G6

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

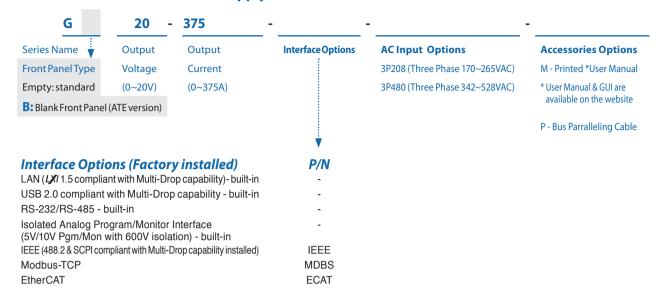
Printed User Manual	G/M

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

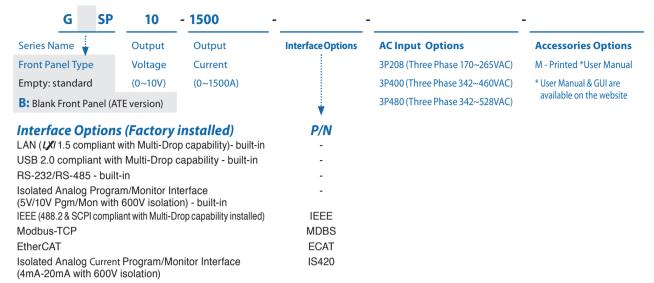
4. User Manual

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

	151111		
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

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

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)			ontinuous, 47	7∼63Hz, Single	Phase						
2. Maximum Input current at 100% load (100/200)	A	12.5/6.5									
3.Power Factor (Typ) 4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	0.99 @ 100Va 86/88	c 0.98 @ 200 87/89	Vac, rated out 87/89	put power. 87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A A	Less than 50/		0//09	0//09	0//09	0//09	00/90	00/90	00/90	00/90
			1					400			
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.01% of rate		-					_		
2.Max. Load regulation (*7) 3.Ripple and noise (p-p, 20MHz) (*8)	mV	0.01% of rate 50	50	50 50	60	60	75	75	75	120	500
4.Ripple and noise (p-p, 20MHz) (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	_			ut voltage, fol				12		20	100
6.Temperature stability				hrs interval fol				e load & temr	`		
7. Warm-up drift				utput voltage+							
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for out	ut voltage to	recover within	0.5% of its ra	ted output fo	r a load chang	e 10~90% of r	ated output c	urrent. Output	t set-point:
·		t		s than 1mS, for	models up to	and including	g 100V. 2mS, fo	r models abo	ve 100V.		
12.Start up delay	Sec	Less than 6 Se	ec ec								
13.Hold-up time	mS				201	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)		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
5.Temperature coefficient	PPM/°C	10V~100V	100PPM/°C fr	rom rated outp	out current, fol	llowing 30 mi	nutes warm-up	э.	-	-	
3. Temperature coefficient	TTW/ C	150V~600V	70PPM/°C fro	m rated outpu	it current, follo	owing 30 min	utes warm-up.				
6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	owing 30 min	utes warm-up	o. Constant line	e, load & temp	erature.		
7. Warm-up drift				n +/-0.25% of r	-				n.	-	
		150V~600V: I	ess than +/-0	.15% of rated o	output current	over 30 minu	tes following p	oower on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	.15% of rated \	/out.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	ut.			
3. Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ctable. Accur	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full	scale, user sele	ctable. Accur	acy and linear	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor				able. Accuracy							
6.Output current monitor (*14)		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ted lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP	JT)										
1. Power supply OK #1 signal		Power supply	output mon	itor. Open coll	ector. Output	On: On. Outpu	ut Off: Off. Max	imum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal		CV/CC Monit	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	m Voltage: 30\	/, Maximum S	ink Current: 10	0mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming co	ntrol by electri	ical signal or c	lry contact. Re	mote: 0~0.6V	or short. Loca	ıl: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal		analog progr	amming conti	rol monitor sig	nal. Open colle	ector. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Ma:	ximum Sink Cu	ırrent: 10mA.
5. ENABLE/DISABLE signal				by electrical si						ogic.	
6. INTERLOCK (ILC) control				by electrical si						,	
7. Programmed signals				nable signals. N							
8. TRIGGER IN / TRIGGER OUT signals				ut voltage = (ninimum. Tr,T						evel input =	5V positive
9. DAISY_IN/SO control signal				6V/2~30V or dr		iani, wiin dei	ay betweell 2	- hanses IIIIs	•		
10. DAISY_OUT/PS_OK #2 signal		-		pedance)=Fail	, contact.						
		1. 54-5K, 0V	,50001111111111111111111111111111111111	aacc, — i dii							
FUNCTIONS AND FEATURES		la		1. 1. 1.	(6)	n (
1. Parallel operation		·		units in Master			iction manual.				
2. Series operation		_		ts. Refer to ins					-		
3. Daisy chain				nected in Dais							
4. Constant power control 5. Output resistance control				a proggramm . Resistance rai							
·				e and Output f	-				•		via the
6. Slew rate control		communicat	on ports or th	e and Output i ne front panel.	an siew rate. Pi	rogramming f	arige: 0.0001~	222.23 V/MS6	c. or A/INSEC.	i rogramming	via tile
7. Arbitrary waveforms		Profiles of up	to 100 steps	can be stored i	n 4 memory c	ells. Activatio	n by command	d via the comr	nunication po	rts or by the fr	ront panel.
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces)	V	10	20	30	40	60	80	100	150	300	600
1.Vout programming accuracy (*15)		0.05% of rate	d output volt	age							
2.lout programming accuracy (*14)				ent+0.2% of ra	ted output cui	rrent					
3.Vout programming resolution		0.002% of rat			, p	-					
4.lout programming resolution		0.002% of rat									
5.Vout readback accuracy			d output volt								
-	_		output curre						0.25% of rate	d autaut aus	ont
6.lout readback accuracy (*14)		U.2% OF Tale 0		110					0.23% Of Tate	a output curr	CIIC
7.Vout readback resolution (of rated output voltage)	96	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
·					0.003% 0.005%	0.002% 0.007%	0.002% 0.009%	0.011% 0.011%			

GENESYS[™] 1.7kW SERIES SPECIFICATIONS

CONTROL OF											
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	~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 Shiz. 110hiz. (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.			
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPL	 JT)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select	ser selectable. scale, user sele scale, user sele scale. Accuracy able. Accuracy	Accuracy and ectable. Accuracy actable. Accuracy: +/-0.5% of rate	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%.	0.4% of rated lo rity: +/-0.5% of rity: +/-0.5% of	out. rated Vout. rated lout.	a. 20V Maxim	um Sink Curro	nt: 10mA
2. Lout voltage programming (*14) 3. Vout resistor programming 4. Lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal	 JT)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user select V, user select	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5% of rate ector. Output	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Outpu	0.4% of rated Id rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Max	out. Frated Vout. Frated lout.	e: 30V, Maximi		nt: 10mA.
2. Lout voltage programming (*14) 3. Vout resistor programming 4. Lout resistor programming (*14) 5. Output voltage monitor 6. Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal 2. CV/CC signal	 JT)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	V or 0~10V, us /10Kohm full /10Kohm full V, user selecti V, user selecti r output moni or. Open colle	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy stor. Open coll ctor. CC mode	Accuracy and ectable. Accuracy ectable. Accuracy ectable. Accuracy: +/-0.5% of rate ector. Output (c) on. CV model	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Outpu	ut Off: Off. Max m Voltage: 30'	out. Frated Vout. Frated lout. Kimum Voltag V, Maximum S	ink Current: 10	mA.	
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) 5.IGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	 JT) 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monito Enable/Disab	V or 0~10V, us /10Kohm full /10Kohm full /10Kohm full V, user select: V, user select: r output monior. Open colle le analog pro	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy stor. Open coll ctor. CC mode gramming co	Accuracy and ectable. Accurrent Accu	linearity: +/-0 acy and linear acy and linear acy and linear ted Vout d lout.%. On: On. Output: Off. Maximu ical signal or or	ut Off: Off. Ma) m Voltage: 30' dry contact. Re	out. rated Vout. rated lout. kimum Voltag V, Maximum S mote: 0~0.6V	ink Current: 10 or short. Loca	0mA. l: 2~30V or op	en.
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progra	V or 0~10V, us /10Kohm full /10Kohm full /10Kohm full V, user select: V, user select: v output monior. Open colle ile analog pro	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy stor. Open coll ctor. CC mode gramming co ol monitor sig	Accuracy and ectable. Accurrent Accu	linearity: +/-0 acy and linear acy and linear acy and linear ted Vout d lout.%. On: On. Output: Off. Maximu ical signal or of ector. Remote:	ut Off: Off. Max m Voltage: 30' dry contact. Re On. Local: Off.	out. rated Vout. rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo	iink Current: 10 or short. Loca Itage: 30V, Max	0mA. l: 2~30V or op kimum Sink Cu	en.
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	 JT) 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progra	V or 0~10V, us /10Kohm full /10Kohm full V, user selects V, user selects r output moni or. Open colle le analog pro amming contr	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig by electrical si	Accuracy and ectable. Accuracy and ectable. Accuracy ectable. Ectable ectar. Output is: On. CV mode entrol by electrinal. Open collegual or dry collegua	linearity: +/-0 acy and linear acy and linear ted Vout d lout.%. On: On. Output: Off. Maximut ical signal or of ector. Remote: ntact. 0~0.6V	.4% of rated lo rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Max m Voltage: 30° dry contact. Re On. Local: Off. or short, 2~30°	out. rated Vout. rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use	iink Current: 10' or short. Loca Itage: 30V, Max er selectable Ic	0mA. l: 2~30V or op kimum Sink Cu	en.
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2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/D	V or 0~10V, us V or 0~10V, us V or 0~10V, us V other full V, user select. V, user select. V, user select. V, user select. V output monior. Open colle le analog pro amming contr le PS output I le PS output I le PS output I le PS output I lie PS output I lid programm w level input: tw=10us n Voltage: 0~0.0 (5000hm imp of 4 identical uni es can be con tput power tc es resistance. le Output viole to 100 steps of d output volt. I output curre ed output volte d output curre ed output curre ed output curre ed output curre ed output curre	ser selectable. scale, user selectable. scale, user selectable. scale, user selectable. Accuracy able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig oy electrical si on signals. N aut voltage = (aninimum. Tr, T st//2~30V or di obedance)=Fail units in Master ts. Refer to ins nected in Dais o a proggramm Resistance ra a and Output f ie front panel. can be stored 30 age age trent age	Accuracy and ectable. Accuracy and ectapolic ectar. Output to consider a consideration and ectable. Accuracy and ectable. Accuracy and ectable. Programment of the ectable. Programment ectable	linearity: +/-0 acy and linear acy	at Off: Off. May m Voltage: 30' dry contact. Re On. Local: Off. or short, 2~30' dry contact. Re On. Local: Off. or short, 2~30' dry contact. Re input voltage ay between interpret voltage ay	interpretation of the control of the	ink Current: 10 for short. Loca Itage: 30V, Mayer selectable lc 10V or open. hunted by 27V kimum high l 5. or the front par ports or the fro ec. or A/mSec.	OmA. I: 2~30V or op kimum Sink Cupgic. I' zener) evel input = nel. ont panel. Programming	en. 5V positive via the ront panel.
2.lout voltage programming (*14) 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 4.lout programming resolution 5.Vout readback accuracy 5.Vout readback accuracy 5.Vout readback accuracy 6.Vout readbac		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/D	V or 0~10V, us V or 0~10V, us V or 0~10V, us V or 0~10V, us V other full V, user select. V, user select. V, user select. V, user select. V output monion. Open colle le analog proamming contre le PS output I lie	ser selectable. scale, user selectable. scale, user selectable. scale, user selectable. Accuracy able. Accuracy able. Accuracy itor. Open coll ctor. CC mode gramming co ol monitor sig oy electrical si on signals. N aut voltage = (aninimum. Tr, T st//2~30V or di obedance)=Fail units in Master ts. Refer to ins nected in Dais o a proggramm Resistance ra a and Output f ie front panel. can be stored 30 age age trent age	Accuracy and ectable. Accuracy and ectapolic ectar. Output to consider a consideration and ectable. Accuracy and ectable. Accuracy and ectable. Programment of the ectable. Programment ectable	linearity: +/-0 acy and linear acy	at Off: Off. May m Voltage: 30' dry contact. Re On. Local: Off. or short, 2~30' dry contact. Re On. Local: Off. or short, 2~30' dry contact. Re input voltage ay between interpret voltage ay	interpretation of the control of the	ink Current: 10 for short. Loca Itage: 30V, Mayer selectable lc 10V or open. hunted by 27V kimum high l 5. or the front par ports or the fro ec. or A/mSec.	OmA. I: 2~30V or op kimum Sink Cupgic. I' zener) evel input = nel. ont panel. Programming	sen. SV positive via the ront panel.

GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut-o	down when p	ower supply o	hanges mode le in autostart	from CV or P	ower Limit to wer Switch, by	CC mode or fr	om CC or Powe	er Limit to CV	mode. munication.
2.Over-voltage protection (OVP)			· ·			cycle in autosta						
3.Over -voltage programming range		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
Over-voltage programming accuracy	cv		+/-1% of rated				5 00.15	3 00.2	5 110.25	3 .03.37	3 330.73	5 001.5
5.Output under voltage limit (UVL)	-,					t. Does not app	oly in analog	programming	Preset by fro	nt nanel or co	mmunication	port
6.Over temperature protection						y autostart mo		programming	g. i reset by ire	nic paner or co		port.
7. Output under voltage limit (UVL)					ut below limit		uc.					,
8. Output under voltage protection (L	JVP)					. P.S output tur ton, by rear par			ge condition. F	Reset by AC inp	out recycle in a	autostart
FRONT PANEL												
1.Control functions			Multiple optio	ons with 2 Fn	coders							
			Vout/lout/Por									
			OVP/UVL/UVF			-						
						dback, OCL, EN	IA II C					
						LAN,IEEE,RS23				. :		
						LAN,IEEE,KSZS	2,83485,038	or Optional C	ommunicatio	n interrace.		
			Output ON/O			DI D	d 10					
						Baud Rate, Ad						
						tage/resistive			10K programr	ning		
						Voltage/Curre		g 5V/10V.				
2.Display						utput voltage						
						put current +/						
3.Front Panel Buttons Indications			OUTPUT ON,	ALARM, PREV	IEW, FINE, COI	MMUNICATION	I, PROTECTIC	N,CONFIGUR	ATION, SYSTE	M, SEQUENCER		
4. Front Panel Display Indications			Voltage, Curre (communicati	ent, Power, C' ion), RS/USB/	V, CC, CP, Exter LAN/IEEE com	rnal Voltage, Ex munication, Tr	ternal Curre igger, Load/S	nt, Address, L Store Cell.	FP, Autostart, S	Safetstart, Fold	lback V/I, Rem	note
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 100%	load								
2.Storage temperature			-30~85°C									
									-			
3.Operating humidity		%	20~90% RH (r			-						
4.Storage humidity		%	10~95% RH (n	io condensat	ion).							
5.Altitude			Operating: 10	000ft (3000m	n), output curre	ent derating 29	6/100m or Ta	derating 1°C/	100m above 2	000m. Non op	erating: 4000	Oft (12000m).
MECHANICAL												
1.Cooling			Forced air cod	olina by inter	nal fans. Air flo	ow direction: fr	om Front na	nel to nower s	unnly rear			
			Less than 5kg		110110113.71111110	ow uncetion. II	om mone par	ici to power s	парріу ісаі			
2.Weight		kg										
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 553.2	(Including b	usbars and bu pusbars and b	usbars cove	er) (Refer to (Outline draw	ing).		
4.Vibration						t condition An	nex C - 2.1.3.	1				
5.Shock			Less than 20G	i, half sine, 11	mSec. Unit is ι	ınpacked.						
SAFETY/EMC												
	-+ C11-M/C1 71-14		LU 61010 1 60	'A 2 2 A 1 - C11	10.1	0 1 FNC1010 1						
1.Applicable standards: Saf	fety G1kW/G1.7kW		UL61010-1, CS	AZZ.Z NO.610	710-1, IEC61010	0-1, EN61010-1.						
1.1. Interface classification G1k	kW/1.7kW					5, J6, J7, J8 (ser se) are hazard) are Non Haz	ardous.
1.2 Withstand voltage G1k	kW/1.7kW		Input - Grour 60V≤Vout≤10 Output & J8 Output & J8 100V <vout≤6 Output & J8</vout≤6 	nd: 2835VD0 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro	C 1min. Input – Outp J2, J3, J4, J5 ound: 1500VI s: Input – Out J2, J3, J4, J5 ound: 2500VI	3 (sense), J1, ut & J8 (sense), J6, J7 & J9 DC 1min, Inpuput & J8 (sense), J6, J7 & J9 DC 1min.	e), J1, J2, J3 (communica t - Ground: 2 e), J1, J2, J	, J4, J5, J6, ation options 2835VDC 1m 3, J4, J5, J6,	J7 & J9 (com): 850VDC 1n nin. J7 and J9 (co	munication or nin.	otions): 4242'	VDC 1min,
1.3 Insulation resistance			100Mohm at 2	25°C, 70%RH	Output to Gro	ound 500VDC						,
2.Conducted emmision					<u> </u>	Annex H table I	11 ECC Dare	15-A VCCI A				
3.Radiated emission	5 (7 1)		_			Annex H table I	1.3 and H4, F	CC Part 15-A,	VCCI-A			
4. EMC compliance EM	IC (*4)		According to	IEC/EN61204	-3 Industrial er	nvironment						

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

OUTDUT DATING		_	10.305	20 125	20.00	40.00	60.45	00.24	100.27	150.10	200.0	600.45
OUTPUT RATING 1.Rated output voltage(*1)		G V	10-265 10	20-135 20	30-90 30	40-68 40	60-45 60	80-34 80	100-27 100	150-18 150	300-9 300	600-4.5
2.Rated output voitage(*1)		A	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
						63Hz (Covers 2 63Hz (Covers		(n.c)				
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)							140/460/480Va	ac)			
						63Hz (Covers 2			acj			
	3-Phase, 200V models:		10A @ 200Va		203140, 17	03112 (0010131	00, 200, 200,	2.10142)				
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va									
100% load	3-Phase, 480V models:		5.5A @ 380Va	ıc								
	1-Phase, 200V models:		16.5A @ 200V									
3.Power Factor (Typ)					30Vac, rated o							
**					c, rated outpu					1		
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50/									
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate									
2.Max. Load regulation (*8)			0.01% of rate	_ ·	T-		1					
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C				llowing 30 mir						
6.Temperature stability								ıp. Constant liı		ıp.		
7. Warm-up drift	-i (*10)				T .	1	1	wing power o	T	-	-	-
8.Remote sense compensation/w	vire (*10)	٧	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	Full load (*11)	mS c	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time:	Full load (*11)	mS ms	50	50	80	80	80	100	100	100	100	200
	No load (*12)	mS	450	600		900	1100	1300	2100	2000	3200	3100
11.Transient response time		mS	10~100%. I o	out voitage to cal sense. Les	s than 1mS. fo	r models up to	ated output fo and includir	or a load changing 100V. 2mS, f	ge 10~90% of for models ah	rated output ove 100V.	current. Outp	ωι set-point:
12.Start up delay		Sec	Less than 6 Se		5 (11011 11115) 10	i models up to	J dirid irreladir	19 1001121113/1	or models dis	010 10011		
. ,												
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)			0.08% of rate		1					1		
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-	-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C						inutes warm-u				
6.Temperature stability								nutes warm-up p. Constant lir				
o. remperature stability								0 minutes foll		•		
7. Warm-up drift								utes following		011.		
				.C33 (Hall +/-0	7.13 /0 OI Tateu	output curren	t over 30 mm	utes following	power on.			
ANALOG PROGRAMMING AND I	MONITORING (ISOLATED											
1.Vout voltage programming								0.15% of rated		,		
2.lout voltage programming (*15	5)							0.4% of rated				
3.Vout resistor programming	-1							rity: +/-0.5% c				
4.lout resistor programming (*15	0)						racy and linea	rity: +/-0.5% c	rated lout.			
5.Output voltage monitor 6.Output current monitor (*15)					able. Accurac							
6.Output current monitor (*15)			0~30000~10	iv, user serect	able. Accurac	y: +/-0.5%.						-
SIGNALS AND CONTROLS (ISOL)	ATED FROM THE OUTPU											
1. Power supply OK #1 signal								out Off: Off. Ma				rent: 10mA.
2. CV/CC signal								um Voltage: 30				
3. LOCAL/REMOTE Analog contro								dry contact. R				
4. LOCAL/REMOTE Analog signal								On. Local: Off				ırrent: 10mA.
5. ENABLE/DISABLE signal								or short, 2~3			iogic.	
6. INTERLOCK (ILC) control								e: 0~0.6V or sh			7\/ 70000)	
7. Programmed signals								imum sink cui				= 5V positive
8. TRIGGER IN / TRIGGER OUT sign	nals		edge triage	r: tw=10us r	ฉะ งบเเลge = ninimum. Tr:	o.ov,iviinimu Tf=1us Maxir	nı nıgır leve num, Min de	i input voitag lay between	je – ∠.ɔv, Ma 2 pulses 1m	azimum nigh 18.	neverniput	- 24 hositive
9. DAISY_IN/SO control signal			3 33		6V/2~30V or d		,	,				
10. DAISY_OUT/PS_OK #2 signal					pedance)=Fai							
FUNCTIONS AND FEATURES			Dossible II	n 4 ide-+i- !	unite in March	/Claus!	Dofort- :- :	ustion	1			
1. Parallel operation						r/Slave mode. struction man		uction manua	l.			
Series operation Daisy chain								ir turn-on and	turn off			
4. Constant power control								ir turn-on and a the commur		or the front =	anel	
Output resistance control								a the commur ning via the co				
								range: 0.0001				ng via the
6. Slew rate control			communicati	on ports or th	he front panel		9					.5 .10 (110
7. Arbitrary waveforms			Profiles of up	to 100 steps	can be stored	in 4 memory	cells. Activation	on by commar	nd via the con	nmunication p	orts or by the	front panel.
PROGRAMMING AND READBA	ACK (LISP I AN											
RS232/485, Optional IEEE(*19	9)(*20) Interfaces)	V	10	20	30	40	60	80	100	150	300	600
1.Vout programming accuracy (*1			0.05% of rate	d output volt	age							
2.lout programming accuracy (*						ited output cu	ırrent					
3.Vout programming resolution			0.002% of rat									
4.lout programming resolution			0.002% of rat									
5.Vout readback accuracy			0.05% of rate									
6.lout readback accuracy (*15)			0.05% of rated									
	tod output valt 1				1	0.0020/	0.0020/	0.0020/	0.0110/	0.0070/	0.0040/	0.0020/
7.Vout readback resolution (of ra		%	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
8.lout readback resolution (of rate	ted output current))	%	0.005%	0.008%	0.002%	0.002%	0.003%	0.004%	0.005%	0.007%	0.002%	0.003%

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	10-340	20-170	30-112	40-85	60	80-42	100-34	150-22.5	300-11.5	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		٧	10	20	30	40	60	80	100	150	300	600
		-		V models: 170								
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342	~460Vac, 47~ ~528Vac, 47~	63Hz (Covers 63Hz (Covers	380/400/415\ 380/400/415/	140/460/480Va	ac)			
2. Maximum Input current at	3-Phase, 200V models: 3-Phase, 400V models:		12.5A @ 200\ 6.5A @ 380Va	/ac ac								
100% load	3-Phase, 480V models: 1-Phase, 200V models:		6.5A @ 380Va									
	1-Pridse, 2007 models:		21A @ 200Va For 3-Phase	0.94 @ 200/38	OVac rated or	itput power						
3.Power Factor (Typ)				0.99 @ 200Vac								
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50	Α								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volta	age							
2.Max. Load regulation (*8)				d output volta	T	,	,	1				
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C		om rated outp								
6.Temperature stability								ıp. Constant liı		ıp.		
7. Warm-up drift	iro (*10)							wing power o	T	-	-	-
8.Remote sense compensation/w	/ire (* IU)	V mc	30	30	5 30	5	5 50	5	5 50	5	5 50	5 100
9.Up-prog. Response time (*11)	Full load (*11)	mS mS	50	50	30 80	30 80	80	50 100	100	50 100	100	200
10.Down-prog.response time:	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time		mS	Time for out	out voltage to	recover withi	n 0.5% of its r	ated output fo	or a load chan ng 100V. 2mS, f	ge 10~90% of for models abo	rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 S				- and mercum					
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr								
2.Max. Load regulation (*13)			0.08% of rate	d output curr	ent.							
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	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C						inutes warm-u				
6.Temperature stability								p. Constant lir		perature.		
7. Warm-up drift			10V~100V m					0 minutes foll				
			1501/~6001/-1	acc than 1/-0	15% of rated	output curren	t over 30 min	utes following	noweron			
				Less than +/-0	.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED		THE OUTPUT)									
1.Vout voltage programming			0~100%, 0~5	5V or 0~10V, us	ser selectable	Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
1.Vout voltage programming 2.lout voltage programming (*15			0~100%, 0~5	SV or 0~10V, us	ser selectable ser selectable	Accuracy and	l linearity: +/-	0.15% of rated 0.4% of rated	Vout.			
Nout voltage programming Inout voltage programming (*15) Nout resistor programming	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	5V or 0~10V, us 5V or 0~10V, us 5/10Kohm full	ser selectable ser selectable scale, user sel	Accuracy and Accuracy and ectable. Accu	d linearity: +/- d linearity: +/- racy and linea	0.15% of rated 0.4% of rated irity: +/-0.5% c	Vout. lout. of rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	5V or 0~10V, us 5V or 0~10V, us 5/10Kohm full 5/10Kohm full	ser selectable ser selectable scale, user sel scale, user sel	Accuracy and Accuracy and ectable. Accu ectable. Accu	d linearity: +/- d linearity: +/- racy and linea	0.15% of rated 0.4% of rated	Vout. lout. of rated Vout.			
Nout voltage programming Inout voltage programming (*15) Nout resistor programming	5)		0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	5V or 0~10V, us 5V or 0~10V, us 5/10Kohm full	ser selectable ser selectable scale, user sel scale, user sel able. Accurac	Accuracy and Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	d linearity: +/- d linearity: +/- racy and linea	0.15% of rated 0.4% of rated irity: +/-0.5% c	Vout. lout. of rated Vout.			
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	5V or 0~10V, us 5V or 0~10V, us 5/10Kohm full 5/10Kohm full DV, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac	Accuracy and Accuracy and Accuracy and ectable. Accuracy ectable. Accuracy: +/-0.5%.	d linearity: +/- d linearity: +/- racy and linea	0.15% of rated 0.4% of rated irity: +/-0.5% c	Vout. lout. of rated Vout.			
1.Vout voltage programming (*15 2.lout voltage programming (*15 3.Vout resistor programming (*15 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~1(oV or 0~10V, us oV or 0~10V, us o/10Kohm full oV, user select oV, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac able. Accurac	Accuracy and Accuracy and Accuracy and ectable. Accurectable. Accurectab	d linearity: +/- d linearity: +/- racy and linea racy and linea	0.15% of rated 0.4% of rated irity: +/-0.5% c irity: +/-0.5% c	Vout. lout. of rated Vout. of rated lout.	ne 30V Mavin	num Sink Curre	ent-10m∆
1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming 5. Output voltage monitor 6. Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	5)	 	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	isV or 0~10V, us isV or 0~10V, us is/10Kohm full is/10Kohm full iv, user select iv, user select	ser selectable ser selectable scale, user sel scale, user sel able. Accurac able. Accurac	Accuracy and Accuracy and Accuracy and Ectable. Accuracy Ectable. Accuracy: +/-0.5%. p: +/-0.5%.	I linearity: +/- I linearity: +/- racy and linearacy	0.15% of rated 0.4% of rated virity: +/-0.5% c virity: +/-0.5% c	Vout. lout. of rated Vout. of rated lout.		num Sink Curri 10mA.	ent: 10mA.
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	S) ATED FROM THE OUTPU	 T)	0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power suppl	sV or 0~10V, us sV or 0~10V, us s/10Kohm full s/10Kohm full DV, user select DV, user select y output moni or. Open colle	ser selectable ser selectable scale, user sel able. Accurac able. Accurac itor. Open coll	Accuracy and Accuracy and Accuracy and Ectable. Accuracy Ectable. Accuracy: +/-0.5%. p: +/-0.5%. ector. Output	I linearity: +/- I linearity: +/- racy and linearacy	0.15% of rated 0.4% of rated irity: +/-0.5% o irity: +/-0.5% o but Off: Off. Ma um Voltage: 30	Vout. lout. of rated Vout. of rated lout. strated lout. aximum Voltag	Sink Current:		
1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming 5. Output voltage monitor 6. Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	S) ATED FROM THE OUTPU	T)	THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power suppl CV/CC Monit Enable/Disal	sV or 0~10V, us sV or 0~10V, us s/10Kohm full s/10Kohm full DV, user select DV, user select y output moni or. Open colle	ser selectable ser selectable scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll sctor. CC mode ogramming co	Accuracy and Accur	I linearity: +/- I linearity: +/- racy and linear racy and linear racy and linear On: On. Outp	0.15% of rated 0.4% of rated irity: +/-0.5% c irity: +/-0.5% c out Off: Off. Ma um Voltage: 30 dry contact. R	Vout. lout. of rated Vout. of rated lout. of saximum Voltag OV, Maximum emote: 0~0.6V	Sink Current: V or short. Loc	10mA.	pen.
1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	S) ATED FROM THE OUTPU	T)	THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monit Enable/Disal analog progr	sV or 0~10V, us SV or 0~10V, us SV or 0~10V, us SV or 0~10V, us SV user select V, user select V output moni or. Open colle ole analog pro amming contr	ser selectable ser selectable scale, user sel able. Accurac able. Accurac itor. Open coll ictor. CC mode gramming co ol monitor sig	Accuracy and Accur	d linearity: +/- d linearity: +/- racy and linear racy and linear racy and linear On: On. Outpee: Off. Maxim rical signal or ector. Remote:	0.15% of rated 0.4% of rated irity: +/-0.5% c irity: +/-0.5% c out Off: Off. Ma um Voltage: 30 dry contact. R	Vout. lout. of rated Vout. of rated lout. sximum Voltag OV, Maximum: emote: 0~0.6	Sink Current: V or short. Loc Itage: 30V, Max	10mA. :al: 2~30V or o ximum Sink Cu	pen.
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1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_	ACK (USB, LAN,)("20) Interfaces) [16]	T)	HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~1(0 0~5V	is or 0~10V, us is or or o-10V, us is or or o-10V, us is or	ser selectable ser selectable ser selectable scale, user sel scale, user sel scale, user sel sable. Accuracy able. Accuracy able. Accuracy able. Accuracy of selectrical selec	Accuracy and Accur	I linearity: +/- I linearity: +/- tary and linearity: +/- tary and linearity: +/- tary and linearity: +/- tary and linearity: On: On: On: Outpet: Off. Maxim rical signal or or tector. Remote ontact. 0~0.6\to hatact. Remote ontact. 0~0.6\to hatact. Remote tage 25\to hatact ha	0.15% of rated 0.4% of rated 0.4% of rated irity: +/-0.5% c irity: -/-0.6% or irity: -/-0.6% or irity: -/-0.6% or s irity: -	Vout. Jout. Jour.	Sink Current: V or short. Loc Itage: 30V, Ma ser selectable 30V or open. Shunted by 27 iximum high is. or the front pa p oprts or the lec. or A/mSec	10mA.	pen. rrent: 10mA. = 5V positive g via the front panel.

GENESYS[™] 5kW SERIES SPECIFICATIONS

1.Rated output voltage(*1) 2.Rated output current (*2) 3.Rated output power INPUT CHARACTERISTICS 1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 2. Maximum Input current at 3-Phase, 200V models:	V A	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
2.Rated output current (*2) 3.Rated output power INPUT CHARACTERISTICS 1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 2. Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 400		10	20-230	30-170	40-123	50	60	80	100-30	150-34	200-23	300-17	400-13	500	600
3.Rated output power INPUT CHARACTERISTICS 1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 2. Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 400V mode		500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 2. Maximum Input current at 3-Phase, 200V models: 3-Phase, 400V models: 3-Phase	W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 2. Maximum Input current at 3-Phase, 200V models: 3-Phase, 400V models: 3-Phase	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2. Maximum Input current at 3-Phase, 200V models: 3-Phase, 400V mo				lels: 170~2					100	150	200	500	100	300	000
2. Maximum Input current at 100% load 3-Phase, 400V models:								/400/415V	/ac)						
2. Maximum Input current at 100% load 3-Phase, 400V models:	3	3-Phase, 4	80V mod	lels: 342~5	28Vac, 47	~63Hz (Co	vers 380/	/400/415/4	40/460/48	30Vac)					
100% load S-Pridse, 400V models:		17.5A @ 20													
		9.2A @ 38													
		9.2A @ 38													
)/380Vac 91	rated out	put powe		91	91	91	91	91	92	92	92	02
		89 (*21) ess than		91	91	90	91	91	91	91	91	92	92	92	92
	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
	_			ut voltag											
Zimaxi Zoda regalation (o)	_			out voltag											
	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient PPI	_			<u>-</u> _				es warm-u							
6.Temperature stability -	(0.01% of ra	ated Vou	t over 8hrs	interval f	ollowing	30 minute	es warm-u	p. Constar	nt line, loa	d & temp.				
7. Warm-up drift	L	ess than	0.05% of	rated out	out voltag	e+2mV ov	er 30 min	utes follo	wing pow	er on.					
8.Remote sense compensation/wire (*10)	٧	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10 Down progressponse time: Full load (*11) n	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 1	Time for o	utput vo	ltage to re	cover wit	hin 0.5% c	of its rated	output fo	r a load cl	nange 10~	90% of ra	ted outpu	it current.	Output se	et-point:
·	- 1			ise. Less t	han 1mS, i	or models	up to an	d includin	g 100V. 2n	nS, for mo	dels abov	e 100V.			
12.Start up delay S	Sec	ess than :	5 Sec												
CONSTANT CURRENT MODE	٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)	(0.05% of r	ated out	out curren	t.										
2.Max. Load regulation (*13)	(0.08% of r	ated out	out curren	it.										
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz (*14) n	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient PPI	M/°C	10V~100V	100PF	PM/°C fror	n rated oເ	tput curre	ent, follov	ving 30 m	inutes war	m-up.					
3.Temperature coefficient	101/ C	150V~600	V 70PPI	N/°C from	rated out	put curre	nt, followi	ing 30 mir	utes warn	n-up.					
6.Temperature stability	(0.01% of r	ated lout	over 8hrs	. interval f	ollowing:	30 minute	es warm-u	p. Constar	nt line, loa	d & tempe	rature.			
7. Warm-up drift	1	10V~100V	model: L	ess than +	-/-0.25% c	f rated ou	tput curre	ent over 3	0 minutes	following	power on				
7. Wallit-up ullit	1	150V~600	V: Less th	an +/-0.15	% of rate	d output c	urrent ov	er 30 mini	utes follov	ing powe	r on.				
ANALOG PROGRAMMING AND MONITORING (ISOLATED FRO	OM TH	IF OUTPU	T)												
			-	~10V use	selectab	e Accurac	v and line	earity: ±/-	0.15% of ra	ited Vout					
	_								0.4% of rat						
									rity: +/-0.5		l Vout.				
									rity: +/-0.5						
				r selectab											
				r selectab											
CICHALC AND CONTROL ((COLATED FROM THE OUTDUT)	_														
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)	F					" . 0		0 0 1	. 0((0()		17 le	201/ 14		1.6	10 1
			. ,						ut Off: Off				imum Sin	k Current:	IUMA.
	_					ae: On. Cv				e: 30V, Ma			10 4		
2. CV/CC signal -					ammina d	- 11						nk Current			
2. CV/CC signal - 3. LOCAL/REMOTE Analog control -			ogrammır				electrical	signal or	dry contac		: 0~0.6V c	r short. Lo	ocal: 2~30		
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal -	-		11 00		monitor s	gnal. Ope	electrical n collecto	signal or r. Remote:	dry contac On. Local:	Off. Maxin	: 0~0.6V c num Volta	or short. Lo ge: 30V, M	ocal: 2~30 aximum S		
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal - 5. ENABLE/DISABLE signal -	E			output by	monitor si electrical	gnal. Ope signal or	electrical n collecto dry conta	signal or r. Remote: ct. 0~0.6V	dry contac On. Local: or short, 2	Off. Maxin 2~30V or c	:: 0~0.6V c num Volta ppen. User	or short. Lo ge: 30V, M selectabl	ocal: 2~30 aximum S e logic.		
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal - 5. ENABLE/DISABLE signal - 6. INTERLOCK (ILC) control -	E	nable/Di	sable PS	output by output by	monitor si electrical electrical	gnal. Ope signal or signal or	electrical n collecto dry conta dry conta	r. Remote: ct. 0~0.6V ct. Remote	dry contact On. Local: or short, 2 e: 0~0.6V o	Off. Maxin 2~30V or corr short. Lo	:: 0~0.6V c num Volta pen. User ocal: 2~30	or short. Lo ge: 30V, M selectabl V or open	ocal: 2~30 aximum S e logic.	ink Curren	
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal - 5. ENABLE/DISABLE signal - 6. INTERLOCK (ILC) control -	E	Enable/Di Two open	sable PS drain pro	output by output by ogrammal	monitor si electrical electrical ole signals	gnal. Ope signal or signal or . Maximu	electrical n collecto dry conta dry conta m voltage	r. Remote: ct. 0~0.6V ct. Remote 25V, Max	dry contact On. Local: or short, 2 e: 0~0.6V of imum sink	Off. Maxin 2~30V or cor or short. Lo current 1	:: 0~0.6V c num Volta pen. User ocal: 2~30 00mA (Sh	or short. Lo ge: 30V, M selectabl V or open unted by 2	ocal: 2~30 aximum S e logic. 27V zener	ink Curren	t: 10mA.
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal - 5. ENABLE/DISABLE signal - 6. INTERLOCK (ILC) control - 7. Programmed signals -	E	nable/Di Iwo open Maximur	sable PS drain pro n low lev	output by output by ogrammal vel input	monitor si electrical electrical ole signals voltage =	gnal. Ope signal or signal or . Maximu = 0.8V, Mi	electrical n collecto dry conta dry conta m voltage nimum h	r. Remote: ct. 0~0.6V ct. Remote 25V, Max nigh level	dry contact On. Local: or short, 2 e: 0~0.6V o	Off. Maxin 2~30V or cor or short. Lot current 1 Itage = 2	:: 0~0.6V conum Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig	ocal: 2~30 aximum S e logic. 27V zener	ink Curren	t: 10mA.
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal - 5. ENABLE/DISABLE signal - 6. INTERLOCK (ILC) control - 7. Programmed signals - 8. TRIGGER IN / TRIGGER OUT signals -	E	Enable/Di Two open Maximur positive e	sable PS drain pro n low levedge trig	output by output by ogrammal vel input gger: tw=	monitor si electrical electrical ole signals voltage = 10us mir	gnal. Ope signal or o signal or o . Maximu = 0.8V, Mi nimum. Ti	electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us N	r. Remote: ct. 0~0.6V ct. Remote 25V, Max nigh level	dry contact On. Local: or short, 2 e: 0~0.6V of imum sink input vo	Off. Maxin 2~30V or cor or short. Lot current 1 Itage = 2	:: 0~0.6V conum Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig	ocal: 2~30 aximum S e logic. 27V zener	ink Curren	t: 10mA.
2. CV/CC signal - 3. LOCAL/REMOTE Analog control - 4. LOCAL/REMOTE Analog signal - 5. ENABLE/DISABLE signal - 6. INTERLOCK (ILC) control - 7. Programmed signals - 8. TRIGGER IN / TRIGGER OUT signals - 9. DAISY_IN/SO control signal	E	Enable/Di Two open Maximur positive e By electric	sable PS drain pro n low levedge trig cal Voltag	output by output by ogrammal vel input gger: tw= e: 0~0.6V	monitor si electrical electrical ole signals voltage = 10us mir /2~30V or	gnal. Ope signal or o signal or o . Maximul = 0.8V,Mi nimum. To dry conta	electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us N	r. Remote: ct. 0~0.6V ct. Remote 25V, Max nigh level	dry contact On. Local: or short, 2 e: 0~0.6V of imum sink input vo	Off. Maxin 2~30V or cor or short. Lot current 1 Itage = 2	:: 0~0.6V conum Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig	ocal: 2~30 aximum S e logic. 27V zener	ink Curren	t: 10mA.
2. CV/CC signal	E	Enable/Di Two open Maximur oositive e By electric	sable PS drain pro n low levedge trig cal Voltag	output by output by ogrammal vel input gger: tw=	monitor si electrical electrical ole signals voltage = 10us mir /2~30V or	gnal. Ope signal or o signal or o . Maximul = 0.8V,Mi nimum. To dry conta	electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us N	r. Remote: ct. 0~0.6V ct. Remote 25V, Max nigh level	dry contact On. Local: or short, 2 e: 0~0.6V of imum sink input vo	Off. Maxin 2~30V or cor or short. Lot current 1 Itage = 2	:: 0~0.6V conum Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi	or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig	ocal: 2~30 aximum S e logic. 27V zener	ink Curren	t: 10mA.
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	E	Enable/Di Two open Maximur positive e By electric 1~5V=OK	sable PS drain pro n Iow Iev edge trig tal Voltag , 0V (500d	output by output by ogrammal vel input gger: tw= e: 0~0.6V ohm impe	monitor si electrical electrical ole signalsi voltage = 10us mir /2~30V or dance)=Fa	gnal. Ope signal or o signal or o . Maximu = 0.8V, Mi nimum. To dry conta ail	electrical n collecto dry conta dry conta m voltage n r,Tf=1us N ct.	signal or r. Remote: ct. 0~0.6V ct. Remote 2 25V, Max nigh level Maximun	dry contact On. Local: or short, 2 e: 0~0.6V c imum sink input vo n, Min del	Off. Maxin 2~30V or cor or short. Lo current 1 Itage = 2 ay betwe	:: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul:	or short. Loge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	ocal: 2~30 aximum S e logic. 27V zener ih level ir	ink Curren	t: 10mA.
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	E I F	Enable/Di Fwo open Maximur Positive e By electric A~5V=OK	drain pro drain pro n low levedge trig al Voltag , ov (500 d	output by output by ogrammal vel input gger: tw= le: 0~0.6V, ohm impe	monitor si electrical electrical ole signalsi voltage = 10us mir /2~30V or dance)=Fa	gnal. Ope signal or signal or . Maximu = 0.8V, Mi nimum. Ti dry conta ail	electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us h ct.	signal or r. Remote: ct. 0~0.6V ct. Remote 2 25V, Max nigh level Maximun	dry contact On. Local: or short, 2 e: 0~0.6V of imum sink input vo	Off. Maxin 2~30V or cor or short. Lo current 1 Itage = 2 ay betwe	:: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul:	or short. Loge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	ocal: 2~30 aximum S e logic. 27V zener ih level ir	ink Curren	t: 10mA.
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	E 1 E E E E F	Enable/Di Fwo open Maximur Dositive e By electric 4~5V=OK Possible. L	drain pro n low levedge trig al Voltag , oV (500c	output by output by output by ogrammal vel input gger: tw= le: 0~0.6V ohm impe	monitor si electrical electrical ole signals voltage e 10us mir /2~30V or dance)=Fa	gnal. Ope signal or o signal or o . Maximuu = 0.8V,Mi nimum. Ti dry conta ail	electrical n collecto dry conta dry conta m voltage nimum h r,Tf=1us h ct. er/Slave n	signal or r. Remote: ct. 0~0.6V ct. Remote 2 25V, Max nigh level Maximun	dry contact On. Local: or short, i e: 0~0.6V c imum sink input vo n, Min del	Off. Maxim 2~30V or cor short. Lo current 1 Itage = 2 ay betwee	:: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul:	or short. Loge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	ocal: 2~30 aximum S e logic. 27V zener ih level ir	ink Curren	t: 10mA.
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	E I I F F F	Enable/Di Fwo open Maximur positive 6 By electric 4~5V=OK Possible. L Possible. 1	drain pro drain pro n low levedge trig cal Voltag , oV (500c	output by output by output by organized by output by organized by output by organized by output	monitor si electrical electrical ole signals voltage : 10us mir /2~30V or dance)=Fa entical uni Refer to in	gnal. Ope signal or o signal or o . Maximur = 0.8V, Mi himum. Ti dry conta ail	electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us h ct. er/Slave m manual.	signal or r. Remote: ct. 0~0.6V ct. Remote 2 25V, Max nigh level Maximum	dry contact On. Local: Or short, i e: 0~0.6V ci imum sink input vo n, Min del	Off. Maxin 2~30V or c or short. Lo current 1 Itage = 2 ay between ction man	e: 0~0.6V conum Volta ppen. User pocal: 2~30 00mA (Sh5V, Maxi pen 2 pul:	or short. Lc ge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	ocal: 2~30 aximum S e logic. 27V zener th level ir	ink Curren	t: 10mA.
2. CV/CC signal	E I K E Z	Enable/Di Two open Maximur oositive of By electric 4~5V=OK Possible. L Possible. L Power sup Limits the	drain pro drain pro n low levedge trig cal Voltag , 0V (500c	output by output by output by organized input to gee: tw= gee: 0~0.6V, ohm impedical units. I be connected to a connected input to a c	monitor si electrical electrical ole signals voltage = 10us mir /2~30V or dance)=Fi entical uni Refer to in ected in Di proggran	gnal. Ope signal or o signal or o . Maximun = 0.8V, Mi himum. Ti dry conta ail ts in Mast nstruction aisy chain nmed valu	electrical n collecto dry conta dry conta dry conta m voltage nimum h r,Tf=1us h ct. er/Slave m manual. to synchr ie. Progra	signal or r. Remote: ct. 0~0.6V ct. Remote: 2 25V, Max high level Maximun node. Refe	dry contact On. Local: or short, : e: 0~0.6V of imum sink input vo n, Min del er to instru r turn-on a the comi	Off. Maxin 2~30V or c or short. Lo current 1 Itage = 2 ay betwee	e: 0~0.6V c num Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi open 2 pul: ual. For m	or short. Lo ge: 30V, M selectabl V or open unted by 2 mum hig ses 1ms.	ocal: 2~30 aximum S e logic. 27V zener th level ir) nput = 5V	t: 10mA.
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2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*15) 3. Vout programming resolution 4. Lout programming resolution 5. Vout readback accuracy 6. lout		Enable/Di Fwo open Maximur oositive e By electric Fossible. L Possible. L Possible s Programn communi Profiles of 10 0.005% of r 0.002% of 0.002% of 0.02% of r 0.02% of r	sable PS of drain process and person of the person o	output by output	monitor si electrical entical uni Refer to increase elected in Deproggram esistance elected in Deproggram in be store electrical ele	gnal. Ope signal or signal or signal or Maximum e 0.8V, Minimum. To dry conta ail ts in Mastruction mined valurange: 1~ t fall slew el. d in 4 mer 50	electrical n collecto dry conta- dry conta- dry conta- dry conta- m voltage nimum h r,Tf=1us h ct. er/Slave n manual. to synchr ne. Progra 1000mΩ. rate. Progra 1000mγ cells	signal or r. Remote: ct. 0 - 0.6V ct. Remote: 2 25V, Max ingh level Maximum onde. Reference with the remote their manning via Programm ir amming via Activatic 80	dry contact On. Local: or short, is: 0~0.6V oi imum sink input vo n, Min del or to instru or turn-on a the comming via th range: 0.0 on by comming by comming the comming via th range: 0.0	Off. Maxin 2~30V or cor short. Lucrent 1 ltage = 2 ay between the common and turn-chunication e communication e communication and turn-chunication e communication e 150 mand via 1 150	e: 0~0.6V conum Volta ppen. User pocal: 2~30 00mA (Sh .5V, Maxi pen 2 pul: ual. For m off. n ports or nication p p9 V/mSec the comm	or short. Loge: 30V, M selectabl V or open unted by 2 mum higgses 1 ms. ore power the front orts or the . or A/mSe unication 300	panel. e front palec. Progra ports or b	onsult with nel. mming via yy the fron	n Factory.
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. ENTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback resolution (of rated output voltage)	E E	Enable/Di Two open Maximur oositive e By electric 4~5V=OK Possible. L Possible. I Possible of the control oositive of the control oositive e By electric table of the control oositive e	sable PS of drain process and	output by output current by output cur	monitor si electrical entital unital electrical electri	gnal. Ope signal or or signal or or signal or or signal or or Maximun = 0.8V,Minimum. Ti dry conta ail tts in Mastration aisry chain nate y chain nate y chain nate of the fall slew el. d in 4 mer	electrical n collecto dry conta dry conta dry conta dry conta n woltage nimum h r,Tf=1us h ct. er/Slave n manual. to synchr le. Progra 1000mΩ. rate. Prog mory cells	signal or r. Remote: ct. 0 - 0.69V ct. Remote: e 25V, Max iigh level Waximun mode. Reference onize their mming via Programm ramming ii. Activatic	dry contact On. Local: or short, 2: co-0.6V ci input vo n, Min del r to instru r turn-on a the comming via th range: 0.0 on by comming vo n by comming via th	Off. Maxin 2~30V or cor short. Lot current 1 ltage = 2 ay between the common and turn-communication e communication e communication and turn-ommunication e communication of the	e: 0~0.6V conum Volta open. User ocal: 2~30 00mA (Sh .5V, Maxi open 2 pul: ual. For m off. n ports or nication p 9 V/mSec	or short. Logge: 30V, M selectabl V or open unted by 2 mum hig ses 1 ms. ore power the front orts or the . or A/mSe unication	ocal: 2~30 aximum S e logic 27V zener th level ir r please co panel. e front pa ec. Progra	onsult with	n Factory.

GENESYS™ 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1. Foldback protection			Output sl User pres	nut-down etable. Re	when pov	ver suppl	y changes n ycle in auto	node fron start mod	n CV or Po le, by Pow	wer Limit ver Switch,	to CC mod by OUTPl	le or from JT button	CC or Pow by rear pa	er Limit to anel or by	CV mode	ation.
2.Over-voltage protection (OVP)			Output sl	nut-down.	Reset by	AC input	recycle in a	utostart n	node, by 0	OUTPUT bu	utton, by r	ear panel	or by com	municatio	n.	
3.Over -voltage programming ra		V		1~24			5-55.125									5~661.5
4. Over-voltage programming a	ccuracy		+/-1% of r	ated outp	ut voltage	9										
5.Output under voltage limit (U'	/L)						mit. Does no		n analog p	rogramm	ing. Prese	by front	panel or co	ommunica	tion port.	
6.Over temperature protection							by autosta	rt mode.								
7. Output under voltage limit (U	VL)		Prevents	adjustme	nt of Vout	below lin	nit.									
8. Output under voltage protect	ion (UVP)						nit. P.S outp utton, by re					ition. Rese	et by AC in	put recycl	e in autost	art
FRONT PANEL																
1.Control functions			Multiple	options w	ith 2 Enco	ders										
			Vout/lout	/Power Li	mit manu	al adjust										
			OVP/UVL	/UVP man	ual adjust											
			Protectio	n Functio	ns - OVP, L	IVL,UVP, F	oldback, O	CL, ENA, II	LC							
			Commun	ication Fu	nctions - S	Selection	of LAN,IEEE	,RS232,RS	485,USB	or Optiona	al commur	nication ir	terface.			
			Output 0	N/OFF. Fro	ont Panel	Lock.										
							of Baud Rat									
							/oltage/resi				K/10K pro	grammin	g			
							of Voltage/0			5V/10V.						
2.Display							output vol								-	
							utput curre									
3. Front Panel Buttons Indication	IS		OUTPUT	ON, ALARI	M, PREVIE	W, FINE, C	OMMUNICA	ATION, PR	OTECTIO	v,configi	JRATION,	SYSTEM, S	EQUENCE	R.		
4. Front Panel Display Indication	S		Voltage, ((commun	Current, Polication), F	ower, CV, 0 IS/USB/LA	CC, CP, Ext N/IEEE co	ternal Volta mmunicati	ge, Exterr on, Trigge	nal Curren er, Load/S	t, Address tore Cell.	, LFP, Auto	start, Safe	etstart, Fol	dback V/I,	Remote	
ENVIRONMENTAL CONDITIONS	5															
1.Operating temperature			0~50°C, 1	00% load												
2.Storage temperature			-30~85°C													
3.Operating humidity		%	20~90% F	RH (no cor	ndensatio	າ).										
4.Storage humidity		%	-		densation											
5.Altitude (*17)							rrent derati	ing 204/10	0m or Ta	dorating 19	C/100m a	hovo 2000)m Non or	orating: A	0000ft (12	000m)
			Operating	g. 100001t	(3000111),	output cu	inenii derati	1119 2 /0/ 10	oni or ia	acrating i	C/ 100111 a	DOVE 2000	7111. TVOIT O	Jerating. 1	000011 (12	
MECHANICAL																
1.Cooling			Forced ai	r cooling b	y interna	l fans. Air	flow directi	ion: from	Front pan	el to powe	er supply r	ear				
2.Weight		kg	2.7kW/3.4	kW - Less	than 6.25	kg.			5kW - Le	ss than 7.5	ikg.					
3.Dimensions (WxHxD)		mm					busbars ar J busbars a				o Outline	drawing	ı).			
4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, 1	est condition	on Annex	C - 2.1.3.1							
5.Shock			Less than	20G, half	sine, 11ms	Sec. Unit i	s unpacked									
SAFETY/EMC																
1.Applicable standards:	Safety		UL61010-	1, CSA22.2	No.61010)-1, IEC610	010-1, EN610	010-1.								
1.1. Interface classification			Vout≤50\	/ Models:	Output, J1	, J2, J3, J4	, J5, J6, J7, J ense) are ha	8 (sense) 8							Hazardou	ıs.
1.2 Withstand voltage			Vout≤50' Input - G 60V≤Vou Output & Output & 100V <vo< td=""><td>V Models round: 28 It≤100V N J8 (sens J8 (sens ut≤600V J8 (sens</td><td>: Input – (335VDC 1 Models: In e) - J1, J2 e) - Grou Models: I</td><td>Output & min. put – Ou 2, J3, J4, nd: 1500 nput – O</td><td>J8 (sense) tput & J8 (sense) J5, J6, J7 VDC 1min, utput & J8</td><td>sense), J & J9 (cor Input - G (sense),</td><td>J3, J4, J5 1, J2, J3, nmunica Fround: 2 J1, J2, J3</td><td>J4, J5, J6 tion option 835VDC</td><td>. J9 (comi 6, J7 & J9 ns): 850V 1min. 6, J7 and</td><td>munication (commu DC 1min.</td><td>n options</td><td>): 4242VE ptions): 4</td><td>0C 1min, 242VDC</td><td>1min,</td></vo<>	V Models round: 28 It≤100V N J8 (sens J8 (sens ut≤600V J8 (sens	: Input – (335VDC 1 Models: In e) - J1, J2 e) - Grou Models: I	Output & min. put – Ou 2, J3, J4, nd: 1500 nput – O	J8 (sense) tput & J8 (sense) J5, J6, J7 VDC 1min, utput & J8	sense), J & J9 (cor Input - G (sense),	J3, J4, J5 1, J2, J3, nmunica Fround: 2 J1, J2, J3	J4, J5, J6 tion option 835VDC	. J9 (comi 6, J7 & J9 ns): 850V 1min. 6, J7 and	munication (commu DC 1min.	n options): 4242VE ptions): 4	0C 1min, 242VDC	1min,
			Input - G	J8 (sens round: 28	e) - Grou	nd: 2500	J5, J6, J7 VDC 1min.	α υσ (coi								
1.3 Insulation resistance			Input - G	round: 28	e) - Grou 35VDC 1	nd: 2500 min.	J5, J6, J7 VDC 1min. Ground 50									
			Input - G 100Mohn	round: 28 n at 25°C,	e) - Grou 335VDC 1 70%RH. O	nd: 2500 min. utput to	VDC 1min. Ground 50	0VDC	FCC Part 1	5-A. VCCI-	Α.					
1.3 Insulation resistance 2.Conducted emmision 3.Radiated emission		_	Input - G 100Mohn IEC/EN61	round: 28 n at 25°C, 204-3 Indi	e) - Grou 335VDC 1 70%RH. O ustrial env	nd: 2500 min. utput to ironment	VDC 1min.	OVDC able H.1 ,								

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

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

 NOTES:

 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 5A/1"C above 40°C G3.4kW: Derate 5A/1"C above 40°C,
 4. For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
 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.
 4. Shot including EMI filter inrush current, Ices than 0.2m5ec.
 7. 3-Phase 200V models: 170-265Vac, 3-Phase 400/ 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 JEITA RC-913IC (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, with rated, resistive load.
 12. From 90% to 10% of Rated Output Voltage, with rated, resistive load.
 13. For load voltage change, equal to the unit voltage rating, constant input voltage.
 13. For load voltage change, equal to the unit voltage rating, constant input voltage.
 13. For load voltage change, equal to the unit voltage rating, constant input voltage.
 14. For 10V model, the ripple is measured at 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. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current programming, readback and monito

GENESYS[™] 7.5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
Development Priority		Α	B	Α	B	В	Α	A	В	B	A	В	A
1.Rated output voltage(*1)	V	20	30	40	60	80	100	150	200	300	600	1000	1500
2.Rated output current (*2)	Α	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
INPUT CHARACTERISTICS	٧	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)		_		170~265Va				40/460/480	Vac).				
2.Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 480V models:		25.5A @ 20 13.5A @ 38											
3.Power Factor (Typ.)		0.94 @ 200	/380Vac, rat	ed output p	ower.								
4.Efficiency (Typ.) (*5) (*3)	%	91	**	91	**	**	91	91	**	**	92	**	92
5.Inrush current (*6)	Α	Less than 6	5A.										
CONSTANT VOLTAGE MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)		0.01% of ra	ted output	voltage.									
2.Max. Load regulation (*8)		0.01% of ra		voltage +5r									
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	**	80	**	**	90	150	**	**	450	**	1300
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	**	8	**	**	15	20	**	**	100	**	500
5.Temperature coefficient				output volta									
6.Temperature stability				er 8hrs. inte						temperatu	ire.		
7.Warm-up drift		†	T	ed output v		1			1	-	-	-	-
8.Remote sense compensation/wire (*10)	V	2	5 **	5	5 **	5 **	5	5	5	5 **	5	5	5
9.Up-prog. response time (*11)	mS mS	30	**	30	**	**	50	50	**	**	100 600	**	200
10.Down-prog. response time Full load (*11) No load (*12)	mS	50 600	**	80 1000	**	**	100 1500	100 2500	**	**	3000	**	400 3000
[-1010dd (12)					r within 0.5						utput curre		3000
11.Transient response time		Output set Less than 1	point: 10~1 mS for mod	100%, Local lels up to an	sense.				-		,		
12.Start up delay		Less than 5											
13.Hold-up time		5mS Typica	I. Rated out	tput power.									
CONSTANT CURRENT MODE	٧	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)		0.05% of ra	ted output	current.									
2.Max. Load regulation (*13)		0.08% of ra	ted output	current.									
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	**	≤300	**	**	≤70	≤45	**	**	≤14	**	≤5
4.Temperature coefficient	PPM/°C			PPM/OC fro									
				OPPM/OC fr									
5.Temperature stability		0.01% of ra	ted lout ove	er 8hrs. inte	rval followi	ng 30 minut	es warm-up	o. Constant	line, load &	temperatu	re.		
6.Warm-up drift		20V~100V	models: Les	s than +/-0.	25% of rate	d output cu	rrent over 3	0 minutes f	ollowing po	ower on.			
orraini ap anit		150V~1500	V models: L	ess than +/-	0.15% of ra	ted output	current over	r 30 minute	s following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROM T	HE OUTPUT	Γ)										
1.Vout voltage programming				V, user sele	ctable. Accı	racy and lir	nearity: +/-0).15% of rate	ed Vout.				
2.lout voltage programming (*15)				V, user sele									
3.Vout resistor programming		0~100%, 0-	~5/10KΩ ful	ll scale, user	selectable	Accuracy a	nd linearity	: +/-0.5% of	rated Vout				
4.lout resistor programming (*15)		0~100%, 0	~5/10KΩ ful	ll scale, user	selectable	Accuracy a	nd linearity	: +/-0.5% of	rated lout.				
5.Output voltage monitor		0~5V or 0~	10V, user se	lectable. Ad	curacy: +/-	0.5% of rate	d Vout.						
6.Output current monitor (*15)		0~5V or 0~	10V, user se	lectable. Ac	curacy: +/-	0.5% of rate	d lout.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	Γ)												
1.Power supply OK #1 signal		Power sup	olv output r	monitor. Op	en collecto	r. Output Or	n: On. Outpu	ut Off: Off. I	Maximum V	oltage: 30V.	Maximum :	Sink Current	t: 10mA.
2.CV/CC signal											rrent: 10mA		
3.LOCAL/REMOTE Analog control		Enable/Dis	able analog	programm	ing control	by electrica	al signal or c	dry contact.	Remote: 0~	~0.6V or sho	rt. Local: 2~	30V or ope	n.
4.LOCAL/REMOTE Analog signal		Analog pro	gramming	control mon	itor signal.	Open collec	tor. Remote	:On. Local:	Off. Maximu	ım Voltage:	30V. Maximı	um Sink Cur	rent: 10mA
5.ENABLE/DISABLE signal											ctable logic		
6.INTERLOCK (ILC) control		•	-								2~30V or op		
7. Programmed signals										nA (shunted	d by 27V zer	ier).	
8.TRIGGER IN / TRIGGER OUT signals		Maximum	low level in high level ir oetween 2 p	put voltage nput = 5V po oulses 1ms.	= 0.8V. Min ositive edge	imum high trigger: tw	evel input v = 10us min	voltage = 2. imum. Tr,Tf	5V. = 1us maxir	mum.			
9.DAISY IN/SO control signal				0.6V/2~30	V or dry co	ntact.							
		-											
10.DAISY_OUT/PS_OK #2 signal		$4\sim5V=OK$, 0 4 (20022 11	iipedance)	= raii.								
		4~5V = OK	, 00 (3002711	iipedance)	= rall.								
FUNCTIONS AND FEATURES						10 mode P	for to insta	iction man	ıal				
FUNCTIONS AND FEATURES 1. Parallel operation		Possible. U	p to 4 ident	ical units in	Master/Slav			ıction manı	ual.				
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation		Possible. U Possible. Tv	p to 4 ident wo identica	ical units in I units. Refe	Master/Slav	ion manual							
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain		Possible. U Possible. To Power sup	p to 4 ident wo identica plies can be	ical units in I units. Refe connected	Master/Slav r to instruct in Daisy ch	ion manual ain to synch	Ironize theil	r turn-on ar	nd turn-off.	rts or the fro	ont panel		
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control		Possible. U Possible. To Power sup Limits the	p to 4 ident wo identica plies can be putput pow	ical units in I units. Refe connected er to a prog	Master/Slav r to instruct in Daisy ch rammed va	ion manual ain to synch lue. Progra	Ironize theii mming via t	r turn-on ar he commu	nd turn-off. nication poi				
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain		Possible. U Possible. To Power supp Limits the o Emulates s Programm	p to 4 ident wo identica plies can be putput pow eries resista able Outpu	ical units in I units. Refe connected er to a prog nce. Resista t rise and O	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall sl	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate.	Ironize theii mming via t	r turn-on ar he commu	nd turn-off. nication poi				
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. U Possible. To Power supplimits the e Emulates s Programm Programm Programm Profiles of	p to 4 ident wo identica plies can be output pow eries resista able Outpu ing range: C ing via com up to 100 st	ical units in I units. Refe connected er to a prog ince. Resista t rise and Oi .0001~999. munication eps can be	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall slav 99 V/mS. or ports or fro	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory celi	Ironize their mming via t Programmi	r turn-on ar he commu	nd turn-off. nication poi				
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. U Possible. To Power supplimits the e Emulates s Programm Programm Programm Profiles of	p to 4 ident wo identica plies can be output pow eries resista able Outpu ing range: C ing via com up to 100 st	ical units in I units. Refe connected er to a prog ince. Resista t rise and O 0.001~999. munication	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall slav 99 V/mS. or ports or fro	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory celi	Ironize their mming via t Programmi	r turn-on ar he commu	nd turn-off. nication poi				
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. U Possible. To Power supplimits the e Emulates s Programm Programm Programm Profiles of	p to 4 ident wo identica plies can be output pow eries resista able Outpu ing range: C ing via com up to 100 st	ical units in I units. Refe connected er to a prog ince. Resista t rise and Oi .0001~999. munication eps can be	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall slav 99 V/mS. or ports or fro	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory celi	Ironize their mming via t Programmi	r turn-on ar he commu	nd turn-off. nication poi			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. R5232/485, Optional (*17) (*20) Interfaces)	 V	Possible. U Possible. To Power sup Limits the c Emulates s Programm Programm Profiles of Activation	p to 4 ident wo identica plies can be output pow eries resista able Outpu ing range: 0 ing via com up to 100 st by commar	ical units in I units. Refe connected er to a prog ince. Resista t rise and Or 0.0001~999. munication eps can be s d via comm	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall slav 99 V/mS. or ports or fro stored in 4 r nunication p	ion manual ain to synch lue. Prograt 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	Ironize their mming via t Programmi s. Is.	r turn-on ar he commui ing via com	nd turn-off. nication por 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. R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)		Possible. U Possible. To Power supplements the Emulates s Programm Programm Profiles of Activation 20 0.05% of ra	p to 4 identica wo identica oblies can be output pow eries resista able Outpu ing range: C ing via com up to 100 st by commar	ical units in lunits. Refecton lunits. R	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall sl 99 V/mS. or ports or fre store in 4 r inunication p	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cel ports or fror	nronize their mming via t Programm s. s. at panel.	r turn-on ar he commui ing via com	nd turn-off. nication por 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. Yout programming accuracy (*16) 2. lout programming accuracy (*15)		Possible. U Possible. To Power supplimits the c Emulates s Programm Programm Programm Programm Programm Offiles of Activation 20 0.05% of ra 0.1% of act	p to 4 identica wo identica oblies can be output pow eries resista able Outpu ing range: C ing via com up to 100 st by commar	ical units in lunits. Refe connected er to a prog nce. Resista trise and Or. (0.001 ~ 99). munication eps can be ed via communication voltage.	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall sl 99 V/mS. or ports or fre store in 4 r inunication p	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cel ports or fror	nronize their mming via t Programm s. s. at panel.	r turn-on ar he commui ing via com	nd turn-off. nication por 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. R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Possible. U Possible. To Power supplimits the c Emulates s Programm Programm Programm Programm Programm On the control of the	p to 4 ident wo identica olies can be output pow eries resista able Outpu ing range: C ing via com up to 100 st by commar 30 ted output ual output d	ical units in lunits. Refe connected er to a prog ince. Resistat rise and Oo. 0.001~999. munication eps can be ed via communication voltage. current +0.2 t voltage.	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall sl 99 V/mS. or ports or fre store in 4 r inunication p	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cel ports or fror	nronize their mming via t Programm s. s. at panel.	r turn-on ar he commui ing via com	nd turn-off. nication por 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. Yout programming accuracy (*16) 2. Iout programming accuracy (*15) 3. Yout programming resolution		Possible. U Possible. To Power supplements the semulates semanter of the seman	p to 4 ident wo identica plies can be putput pow eries resista able Outpu ing range: C ing via com up to 100 st by commar 30 ted output ual output o	ical units in lunits. Refe connected er to a prog nce. Resistat rise and 0.0001-999. munication epis can be ad via comm 40 voltage. current +0.2 t voltage. t current.	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall sl 99 V/mS. or ports or fre store in 4 r inunication p	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cel ports or fror	nronize their mming via t Programm s. s. at panel.	r turn-on ar he commui ing via com	nd turn-off. nication por 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, R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 4. lout programming resolution	 V	Possible. U Possible. To Power supplimits the e Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.002% of 1 0.002% of 1 0.002% of 1 0.002% of 1	p to 4 ident wo identica plies can be putput powe eries resista able Output ing range: C ing via com up to 100 st by commar 30 ted output ual output tual output ated output ated output	ical units in I units. Refe connected er to a prog ince. Resistat t rise and 00001–999. munication eps can be id via comm 40 voltage. current +0.2 t t voltage. t t current. voltage.	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall slav go V/mS. or ports or fre tored in 4 h unication p 60	ion manual ain to synch lue. Prograt 1–1000mΩ. ew rate. A/mS. ont panel. nemory cel oorts or fror 80	nronize their mming via t Programm s. s. at panel.	r turn-on ar he commui ing via com	nd turn-off. nication por 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. R5232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. Lout programming resolution 4. Lout programming resolution 5. Vout readback accuracy		Possible. U Possible. To Power supplimits the e Emulates s Programm Programm Programm Profiles of Activation 20 0.05% of ra 0.002% of 1	p to 4 identical piles can be be used to 4 identical piles can be be used to 4 identification of the can be used to 4 identification of 4	ical units in I units. Refe connected er to a prog ince. Resistat t rise and 00001–999. munication eps can be id via comm 40 voltage. current +0.2 t t voltage. t t current. voltage.	Master/Slav r to instruct in Daisy ch rammed va ince range: utput fall sl 99 V/mS. or ports or fre store in 4 r inunication p	ion manual ain to synch lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cel ports or fror	nronize their mming via t Programm s. s. at panel.	r turn-on ar he commui ing via com	nd turn-off. nication por munication	ports or fro	ont panel.	0.011% 0.002%	1500 0.007% 0.003%

GENESYS[™] 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	20	30	40	60	80	100	150	200		300	600	1000	1500	
				t-down wher	nower sunt				_		om C					
1.Foldback protection			Reset by AC	input recycle	e in autostar	t mode, by P	ower Switcl	n, by OUTPU	T button, by	rear panel	or by	/ communi	cation.			
2.Over-voltage protection (OVP)				t-down. Rese												
 Over-voltage programming ran 		V	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.3	7 5~220	.5	5~330.75	5~661.5	5~1212.75	5~1653.75	
4. Over-voltage programming acc				ed output vo												
5.Output under voltage limit (UV	L)			om adjusting				analog prog	gramming. F	reset by fro	ont p	anel or cor	nmunicatior	n port.		
6.Over temperature protection			Shuts down	the output.	Auto recove	ry by autost	art mode.									
7.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 op	tions with 2 I	Encoders											
			Vout/lout/F	ower Limit n	nanual adius	it										
				VP manual a												
			Protection	Functions - O	VP. UVL.UVP	P. Foldback. (OCL. ENA. IL	C								
				ation Function					Optional cor	nmunicatio	on int	erface				
				OFF. Front Pa		0. 2,.22		105/055 01 0	ptional co.	······································		criacci				
				ation Function		n of Raud R	ate Address	IP and com	munication	language						
				trol Function												
				nitor Function						program	9					
2.Display				ts, accuracy:					100.							
Z.Display				s, accuracy: 0												
3.Front Panel Buttons Indications	,			i, ALARM, PR					ONEIGHDAT	ION CVCTE	M CE	OLIENICED				
5.Front Panel Buttons indications	1															
4. Front Panel Display Indications			Voltage, Cu RS/USB/LAN	rrent, Power, N/IEEE comm	CV, CC, CP, E unication, T	external Volt rigger, Load,	age, Extern /Store Cell.	al Current, A	.ddress, LFP,	Autostart,	Safet	tstart, Fold	back V/I, Rer	note (comm	unication),	
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 100)% load.												
2.Storage temperature			-30~85°C	7,01000.												
		_														
3.Operating humidity		%		(no condens												
4.Storage humidity		%	10~95% RH	(no condens	ation).											
5.Altitude (*17)			Operating:	10000ft (300	0m), output	current dera	ting 2%/100	m or Ta der	ating 1°C/10	0m above 2	2000r	m. Non ope	erating: 4000	0ft (12000m).	
MECHANICAL																
1.Cooling			Forced air c	ooling by int	ernal fans. A	irflow direct	tion: From f	ront panel to	power sup	ply rear.						
2.Weight		kg	Less than 8.	5Kg.												
3.Dimensions (WxHxD)		mm	W: 423, H: 43.6, D: 486.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 598.1 (Including busbars and busbars cover).													
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1													
5.Shock			Less than 20G. half sine. 11mS. Unit is unpacked.													
				. 2,a.i 3iiiC,	Omit i.	- anpached.										
SAFETY/EMC	la c .	1	lun ascere													
1.Applicable standards:	Safety			CSA22.2 No.6												
1.1. Interface classification			Vout≤50V N	Nodels: Outp	ut, J1, J2, J3,	J4, J5, J6, J7,	J8 (sense) 8	J9 (commu	nication opt	ions) are N	on Ha	azardous.				
I.i. iiiterrace classification			60≤Vout≤1	500V Models	: Output & J8	3 (sense) are	hazardous,	J1, J2, J3, J4,	J5, J6, J7 & .	19 (commui	nicati	on options	s) are Non Ha	azardous.		
			Vout≤50V N Input - Grou	Models: Input	– Output &	J8 (sense), J1	, J2, J3, J4, J	5, J6, J7 & J9	(communic	ation optic	ons): 4	1242VDC 11	min,			
			60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1mir Output & J8 (sense) – J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min, Output & J8 (sense) – Ground: 1! Input - Ground: 2835VDC 1min.										VDC 1min,			
1.2 Withstand voltage			100V <vout: Output & J8</vout: 	≤600V Mode 3 (sense) - J1, und: 2835VD0	ls: Input – Ou J2, J3, J4, J5,											
			Output & J8	t≤1500V Mod 3 (sense) - J1, und: 2835VD0	J2, J3, J4, J5,	Output & J8 J6, J7 & J9 (c	(sense), J1, ommunicat	J2, J3, J4, J5, ion options	J6, J7 and J9 : 2000VDC	(commun Imin, Outp	icatic ut & J	on options) 8 (sense) -	: 4000VDC 1 Ground: 328	min, 80VDC 1min.		
1.3.Isolation resistance			100Mohm a	t 25°C, 70%F	RH. Output to	o Ground 50	00VDC									
2.EMC standards (*18)				4-3 Industria				CC Part 15-A	. VCCI-A							
2.1.Conducted emission				4-3 Industria						CI-A						
		+					table H.5 a	114, FCC h	art 13-M, VC	.CITA						
2.2.Radiated emission			JIEC/EN6120	4-3 Industria	i environme	nt										

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

NOTES:

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

- *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models and 380~480Vac (50/60Hz) for 3-Phase 480V models.

 *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

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

 *7: 3-Phase 200V models: 70~265Vac, 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 JETIA RC-913TC (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 SHz~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.

- *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

A 100 20 30 40 50 50 80 100 150 300	GSP 10-1000 20-500 30-340 40-250 50-200 60-170 80-130 100-100 150-68 200-50 300-34 400-	500-20 60	500-17												
2 2 2 2 2 2 2 2 2 2			600												
NPUT CHARACTERISTICS			17												
Phase_8097 models 179-26974c_479-4814 (Givers 20047390c)	kW 10 10 10.2 10 10 10.2 10.4 10 10.2 10 10.2 10.4	10 1	10.2												
Phase_8097 models 179-26974c_479-4814 (Givers 20047390c)	W 10 20 30 40 50 60 80 100 150 200 300 400	500 6	600												
Sprakes, 400m models		300 0	000												
3-Phase, 490/models															
2. Maximum input current at 13 Phases, 2009 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 18.4 % 3 930/sc 11.5 Phases (2007 models): 3 Phases, 4007 models: 18.4 % 3 930/sc 11.5 Phases (2007 models): 3 Phases (4007 models): 4 Phases (2007 mo															
100% load	3-Phase, 200V models: 35A @ 200Vac														
3. Phase, 460V models 15.4A & 3. Silvar. 15.4	t 3-Phase, 400V models: 18.4A @ 380Vac														
3Power Factor (Typ) 91 91 91 91 91 91 91 9															
Struction Current (**)															
Simple and most by Simple	% 89 (*21) 90 91 91 91 91 91 91 91 91 91 91 92 92	91	92												
COMSTAIN TOUTNEE MODE	A Less than 100A														
Max. Lude regulation (**)	% <5%														
Max. Line regulation (??)	W 10 20 20 40 50 60 90 100 150 200 400	500 6	600												
2 2 2 2 5 7 7 7 7 7 7 7 7 7		300 6	000												
SARpole rams. 51: MR ST 75 75 75 75 75 75 75 7															
A Ripple run. 5 11 12 12 12 12 13 15 20 45 60 80		450 4	480												
Stemperature coefficient			100												
Comparature stability		00	100												
Name Series Ser															
8.8emote sense compensation/wire (*10)															
9.Up prog, Response time		5	5												
1.1. 1.1.			100												
10.10m/progresponse time			200												
Times for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current.	e'		3000												
10-100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.	Time for output voltage to recover within 0.5% of its rated output for a lead change 10, 00% of rated output current														
CONSTANT CURRENT MODE	ms limited of output voltage to recover within 0.5% of its faced output for a doad change 10~90% of faced output current 10~100%. Local sense, Less than 1ms, for models up to and including 100V, 2ms, for models above 100V.	Jutput set-poi	JIIIL:												
CONSTANT CURRENT MODE LiMax. Line regulation (*7) 0.05% of rated output current. 0.05% of rated output current. 0.08% of rated output current. 0															
Max. Line regulation (*7)															
2.Max. Load regulation (*13)															
2.Ripple:m.s.@ 10% rated voltage. B.W 5Hz-1MHz. (TL45') m.h 1500 1200 600 300 200 150 100 70 45 45 15 15 15 15 15 15															
A															
DV-100V 100PPM/C From rated output current, following 30 minutes warm-up.			10												
Side-parture coefficient		8	6												
Source S	PPM // ·														
	150V~600V 70PPM/°C from rated output current, following 30 minutes warm-up.														
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)															
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1. Vout voltage programming															
1. Nout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.	150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.														
2. Out voltage programming (*15)	ND MONITORING (ISOLATED FROM THE OUTPUT)														
3.Vout resistor programming	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.														
4.Iout resistor programming (*15) 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout. 5.Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Output current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Ioutput current monitor (*15) 0-6V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Ioutput current monitor (*15) 0-6V or 0-10V, Maximum Voltage: 30V, Maximum Sink Current 100mA (5hunted by 27V zener Voltage: 0-10V or 10V contact. Remote: 00.6V or short, 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable. Accuracy: +/-0.5% o	(*15) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.														
5.Output voltage monitor															
Signal Sand Control (*15) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.	(*15) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.														
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal	0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated Vout.														
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. LOCAL/REMOTE Analog signal 6. LOCAL/REMOTE Analog signal 7. Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30 or open. User selectable logic. 8. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Series operation 9. Days value 9. Power supply output monitor. Open collector. Output Off: Off. Maximum Sink Current: 10m. A. 1. LOCAL/REMOTE Analog signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V, shaximum 5. Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short. Local: 2~30V or open. User selectable logic. 9. INTERLOCK (ILC) control 9. Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. User selectable logic. 9. Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener Maximum lovel input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input voltage: 0~0.6V/2~30V or dry contact. 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Series operation 9. Consult with Factory 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Consult with Factory 9. Consult with Factory 9. Consult with Factory 9. Days year and the communication ports or the front panel. 9. Consult with Factory 10. September 10. Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory 10. Days year and 10. Days year and 10. Days	15) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.	·													
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. LOCAL/REMOTE Analog signal 6. LOCAL/REMOTE Analog signal 7. Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30 or open. User selectable logic. 8. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Series operation 9. Days value 9. Power supply output monitor. Open collector. Output Off: Off. Maximum Sink Current: 10m. A. 1. LOCAL/REMOTE Analog signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V, shaximum 5. Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short. Local: 2~30V or open. User selectable logic. 9. INTERLOCK (ILC) control 9. Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. User selectable logic. 9. Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener Maximum lotted per selectable logic. 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Series operation 9. Consult with Factory 9. Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory 9. Consult with Factory Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Co	COLATED FROM THE OUTDUT														
2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 7. Two open drain programmable signals or dry contact. 0-0.6V or short. Local: 2-30V or open. 7. Programmed signals 7. Two open drain programmable signals or dry contact. 0-0.6V or short. 2-30V or open. User selectable logic. 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Described by the described b		Current, 10m	- A												
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4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum 5. ENABLE/DISABLE signal Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic. 6. INTERLOCK (ILC) control Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. 7. Programmed signals signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener 8. TRIGGER IN / TRIGGER OUT signals Two open drain programmable signals. Maximum high level input voltage = 2.5V, Maximum high level in edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6V/2~30V or dry contact. 10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, 0V (500ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 2. Series operation Consult with Factory 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Programmadle Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to		/or onco													
5. ENABLE/DISABLE signal	31 3 3 7		10m ^												
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8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DA															
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9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6V/2~30V or dry contact. 10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, 0V (500ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation Consult with Factory. 2. Series operation Consult with Factory. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a proggrammed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by PROGRAMMING AND READBACK (USB, LAN)	signals edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.	par – ov hosi	SICIVE												
Total Content of the communication ports or the front 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 7. Arbitrary waveforms 7. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the Front panel. 7. Arbitrary MINIOR AND READBACK (USB, LAN) 7. ProgramMING AND READBACK (USB, LAN) 7. ProgramMING AND READBACK (USB, LAN) 7. Prossible. Up to four (4) identical GSP units. For more power please consult with Factory. 7. Ale interest power please consult with Factory. 8. Programming to synchronize their turn-on and turn-off. 8. Consult with Factory. 8. Programming via the communication ports or the front panel. 9. Consult with Factory. 9. Programming via the communication ports or the front panel. 9. Consult with Factory. 9. Programming via the communication ports or the front panel. 9. Consult with Factory. 9. Programming via the communication ports or the front panel. 9. Consult with Factory. 9. Consult with Factory. 9. Programming via the communication ports or the front panel. 9. Consult with Factory. 9. Consu															
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5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front pa 6. Slew rate control 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the front panel. 7. PROGRAMMING AND READBACK (USB, LAN,															
6. Slew rate control 7. Arbitrary waveforms															
communication ports or the front panel. 7. Arbitrary waveforms															
7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or b	Programmable Uutput rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Prog	nming via the	5												
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PROGRAMMING AND READBACK (USB, LAN, V 10 20 20 40 50 60 90 100 150 200 400															
DC323/495 Ontional IEEE (*10)(*30) Interfaces) V IU 20 30 40 30 80 100 150 200 300 400	BACK (USB, LAN, V 10 20 30 40 50 60 80 100 150 200 300 400	500 6	600												
R5232/485, Optional IEEE (*19)(*20) Interfaces)	101(*30) Interfaces 1 10 20 30 TO 30 00 100 130 200 300 400														
	19)(*20) Interfaces) V 10 20 30 40 30 00 80 100 130 200 300 400														
	119)(*20) Interfaces)														
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	199(*20) Interfaces														
	19 (*20) Interfaces	0.00324	.0022/												
8.lout readback resolution (of rated output current))	19 (*20) Interfaces		0.002%												

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	
INFOT CHARACTERISTICS	V	3-Phase, 2							100	150	200	300	400	500	600	
1.Input voltage/freg. 3 phase, 3 wire + Ground (*4)		3-Phase, 4) ()							
Impac voltage/freq. 5 phase, 5 whe 1 dround (4)		3-Phase, 4								OVac)						
3-Phase, 200V model	i:	52.5A @ 20		213. 3 12 32	LOVUC, 47	03112 (CO	VC13 300/-	100/113/1	10/100/10	ovacj						
2. Maximum Input current at 3-Phase 400V model																
100% load 3-Phase, 480V model		27.6A @ 380Vac														
3.Power Factor (Typ)		0.94 @ 200/380Vac, rated output 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)	A	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 r		ut voltage												
2.Max. Load regulation (*8)		0.01% of r														
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 and noise (p-p, 20M12) (9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100	
5.Temperature coefficient	PPM/°C									20	13	00	00	- 00	100	
6.Temperature stability										t line load	1 & temp					
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	
		Time for o														
11.Transient response time	mS	10~100%,	Local sens	se. Less th	an 1mS, fo	or models	up to and	lincluding	100V. 2m	S, for mod	dels above	100V.			. p =	
12Start up delay	Sec	Less than	7 Sec													
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
1.Max. Line regulation (*7)		0.05% of r				30	00	00	100	130	200	300	400	300	000	
2.Max. Load regulation (*13)		0.08% of r														
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz. (*14		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°	_	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6	
Hamppie lands. @ 100 /6 tated voltage. B.W 5112 1WH2. (17/25		10V~100V						ing 30 mir				7.5	7.5			
5.Temperature coefficient	PPM/°C							ng 30 minu								
6.Temperature stability		0.01% of ra									l & tempe	rature				
,		10V~100V														
7. Warm-up drift		150V~600														
ANALOG PROGRAMMING AND MONITORING (ISOLATI	_	_		4017	1 . 11			1								
1.Vout voltage programming		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated 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.														
4.lout resistor programming (*15)		0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.														
5.Output voltage monitor (*23) 6.Output current monitor (*15) (*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	UT)															
1. Power supply OK #1 signal		Power sup												Current:	10mA.	
2. CV/CC signal		CV/CC Mo														
3. LOCAL/REMOTE Analog control		Enable/Di														
4. LOCAL/REMOTE Analog signal		analog pro												ink Curre	nt: 10mA.	
5. ENABLE/DISABLE Signal		Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic. Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.														
6. INTERLOCK (ILC) control																
7. Programmed signals	+	Two open														
8. TRIGGER IN / TRIGGER OUT signals		Maximum tw=10us r								.5V, Maxir	num high	ievel inpu	ut = 5V po	sitive edg	e trigger:	
9. DAISY IN/SO control signal		By electric						11 2 puises	11113.							
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK														
			. ,50001		,											
FUNCTIONS AND FEATURES		la		(4)	1.00-				10							
1. Parallel operation		Possible. U			al GSP un	its. For mo	ore power	please co	nsult with	ractory.						
2. Series operation		Consult w								1.						
3. Daisy chain		Power sup										.1 6	,			
4. Constant power control		Limits the												-1		
5. Output resistance control		Emulates:													tho	
6. Slew rate control		Programm communic	able Outp	ts or the f	output ront pane	iaii siew r I.	ate. Progr	arming r	ariye: 0.00	101~999.9!	> v/1115eC.	. UI A/MSE	c. riograr	ınınıng via	i tile	
7. Arbitrary waveforms		Profiles of					nory cells.	Activation	by comn	nand via th	ne commi	unication	ports or b	y the fron	t panel.	
PROGRAMMING AND READBACK (USB, LAN,																
RS232/485, Optional IEEE (*19)(*20) Interfaces)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
1.Vout programming accuracy (*16)		0.05% of r	ated outp	ut voltage												
2.lout programming accuracy (*15)		0.3% of ra														
3.Vout programming resolution		0.002% of			ie											
4.lout programming resolution		0.002% of														
5.Vout readback accuracy		0.05% of	ated outp	ut voltage	2											
6.lout readback accuracy (*15)		0.2% of ra														
7.Vout readback resolution (of rated output voltage)	%	0.011%	0.006%	0.004%	0.003%	0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%	
8.lout readback resolution (of rated output current))	%	0.012%	0.003%	0.003%	0.004%	0.004%	0.005%	0.006%	0.008%	0.012%	0.002%	0.003%	0.003%	0.003%	0.005%	

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600		
1.Foldback protection			Output s User pres	hut-down setable. Re	when po	wer suppl	y changes ycle in aut	mode froi ostart mo	m CV or Po de, by Pov	ower Limit ver Switch	to CC mo	de or fron UT buttor	n CC or Po n, by rear p	wer Limit i	to CV mod commun	le. ication.		
2.Over-voltage protection (OVP)			Output s	hut-down	. Reset by	AC input	recycle in	autostart r	mode, by	OUTPUT b	utton, by	rear pane	or by cor	nmunicati	on.			
3.Over -voltage programming ran	ge	٧	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		
4. Over-voltage programming acc	uracy		+/-1% of	rated out	out voltag	je	•	•	•	•	•		•		•	•		
5.Output under voltage limit (UVL	.)		Prevents	from adju	isting Vol	it below lir	nit. Does r	not apply i	n analog	programm	ning. Prese	et by front	panel or	communic	ation port	t.		
6.Over temperature protection			Shuts do	wn the ou	tput. Aut	o recovery	by autost	art mode.										
7. Output under voltage limit (UVL	_)					t below lin												
8. Output under voltage protection	on (UVP)		Prevents mode, by	adjustme / Power Sv	nt of Vou vitch, by (t below lim DUTPUT bu	nit. P.S out utton, by r	put turns (ear panel (Off during or by com	under vol municatio	ltage con	dition. Res	et by AC i	nput recyc	le in auto	start		
FRONT PANEL																		
1.Control functions			Multiple	options w	ith 2 Enc	odorc												
1.Control functions						ual adjust												
				/UVP mar														
						UVL,UVP, F	oldback (OCI ENIA	11.0					-	-	-		
						Selection				or Ontion	al commi	nicationi	ntorfoco					
				N/OFF. Fr			OI LAIN,IEE	E,N3Z3Z,N	3463,030	or Option	ai commi	IIIICation i	illeriace.					
							of David Da	to Addro	cc ID and	communic	ation lan	~!!? @ 0						
			Communication Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming															
	,			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.														
2.Display						% of rated				ع ۱۵۸/۱۵۸			-					
2.Display																		
2 Front Danal Buttons Indications						of rated o				N CONFIC	LIDATION	CVCTEM	CECHENIC	ED				
3.Front Panel Buttons Indications																		
4. Front Panel Display Indications			Voltage, (commu	Current, P nication),	ower, CV, RS/USB/L	CC, CP, Ext AN/IEEE co	ternal Volt mmunica	age, Exter tion, Trigg	nal Curre er, Load/S	nt, Address tore Cell.	s, LFP, Aut	ostart, Saf	etstart, Fo	oldback V/	I, Remote			
ENVIRONMENTAL CONDITIONS																		
1.Operating temperature			0~50°C	100% load														
			-30~85°C															
2.Storage temperature																		
3.Operating humidity		%	_	RH (no co														
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)															
MECHANICAL																		
1.Cooling			Forced a	ir cooling	hy interna	al fans. Air	flow direc	tion: from	Front par	el to now	er supply	rear						
	GSP 10kW	kg	Less than		<i>b</i> ,		non uncc		Tront par	ici to posi	c. supp.y							
z.weight	GSI TORVV	ĸy			44 5 040-1	.1. 1												
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H	H: 88, D: 6		out busbar ing busbar				relief) (Ref	er to Outli	ne drawing	g).					
2.Weight	GSP 15kW	kg	Less than															
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423,	H: 132.5, [D: 640 (Inc	Vithout bu luding bu	sbars and	busbars co	over, and		(Refer to	Outline d	lrawing).					
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex 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		UI 61010	-1 (SA22	2 No I 610	10-1, IECL6	51010-1 FN	II 61010-1										
1.1. Interface classification	Jaiety		Vout≤50	V Models:	Output, J	1, J2, J3, J4	, J5, J6, J7,	J8 (sense)	& J9 (com	municatio	n options	are Non	Hazardou	S.	- 11			
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 to Vout≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VD0 Input - Ground: 2835VDC Timin. 60V≤Vout≤10V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 42 Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC Timin. Output & J8 (sense) - Ground: 1500VDC Timin, Input - Ground: 2835VDC Timin. 100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min.="" 2500vdc="" 2835vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" timin.<="" –=""><td>DC 1min, 4242VDC</td><td>1min,</td></vout≤600v>								DC 1min, 4242VDC	1min,						
1.3 Insulation resistance			GSP10kW	//15kW: 60) Mohm a	t 25°C, 709	6RH. Outp	ut to Grou	und 500\	DC								
2.Conducted emmision						vironment					-A.							
3.Radiated emission						vironment												
4. EMC compliance	EMC(*18)					vironment		tubic i i.J	u.iu i i+, i	CC I ait 13	, , v CCI-7	٠.						
4. LIVIC COMPHANCE	LIVIC("10)		I EC/ENOI	∠∪4-3 I∏0	ustriäl en	vironment												

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: 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 400Vac 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: 342~528Vac. 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-913TC (1:1) probe. For 200-600V models: Measured with 100:1 probe.

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

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

 *12: From 90% to 10% of Rated Output Voltage.

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

 *14: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.

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

 *16: Measured at the sensing point.

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

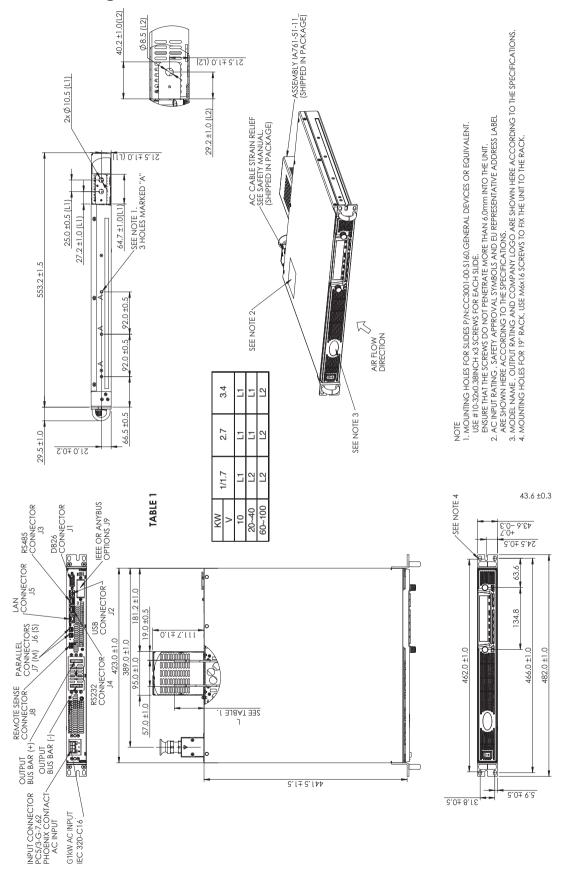
 *20:GSP15kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 900A up to 30°C.

 *20:GSP15kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.

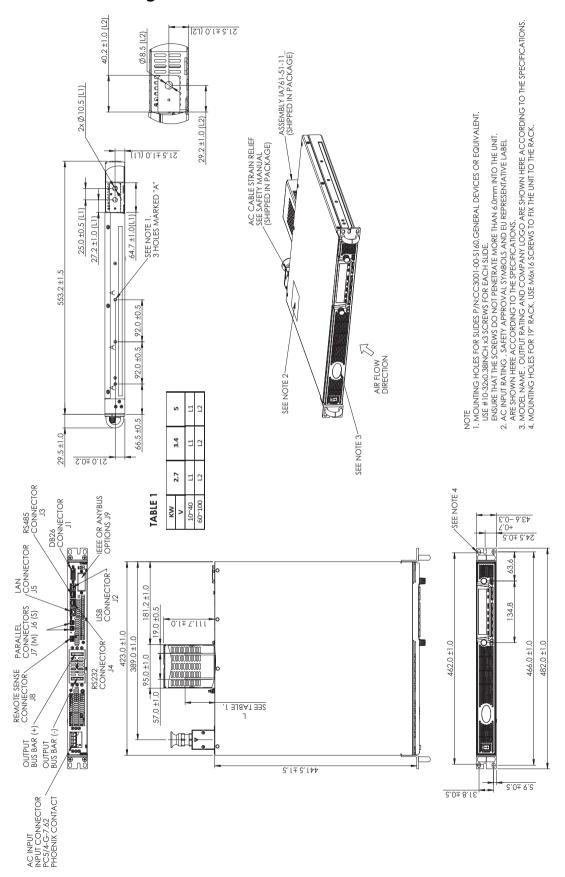
 *21: For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.

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

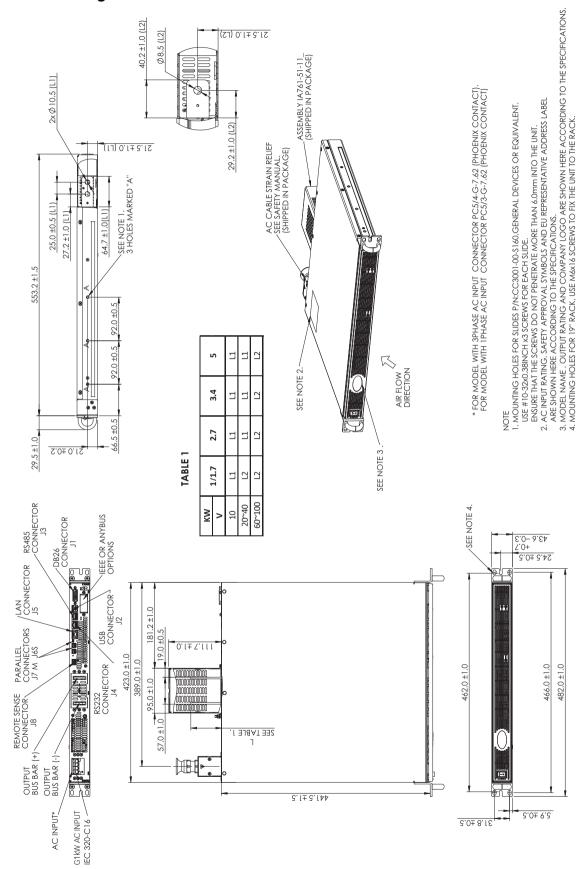
Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



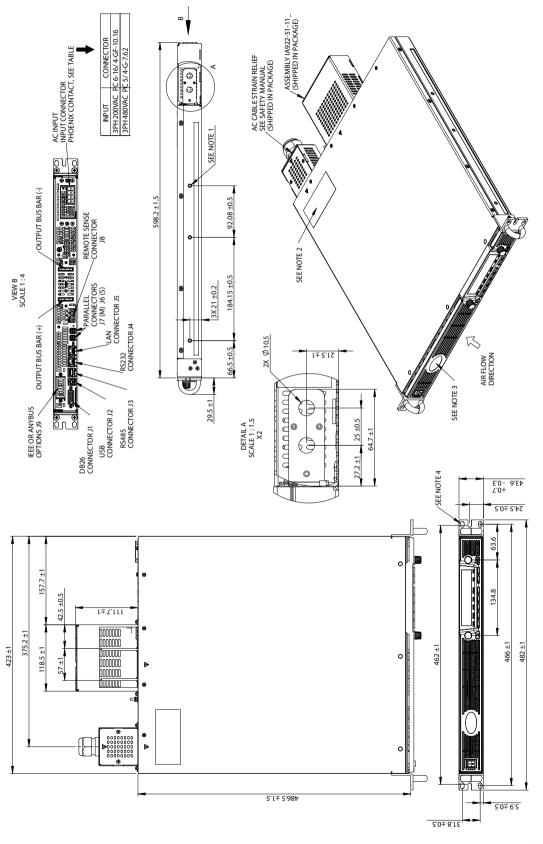
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



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



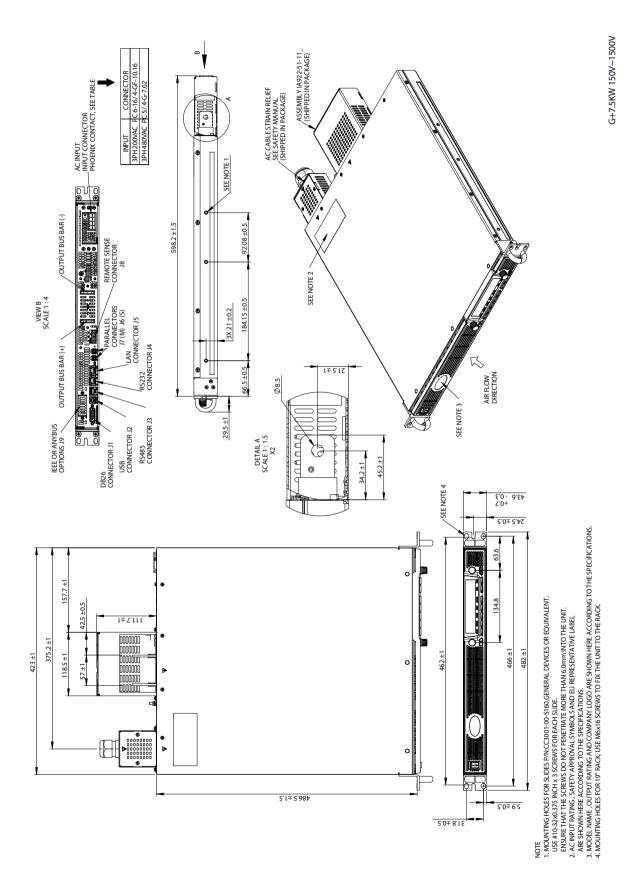
Outline Drawing GENESYS™ G7.5kW - LV (20V-100V) 3-Phase



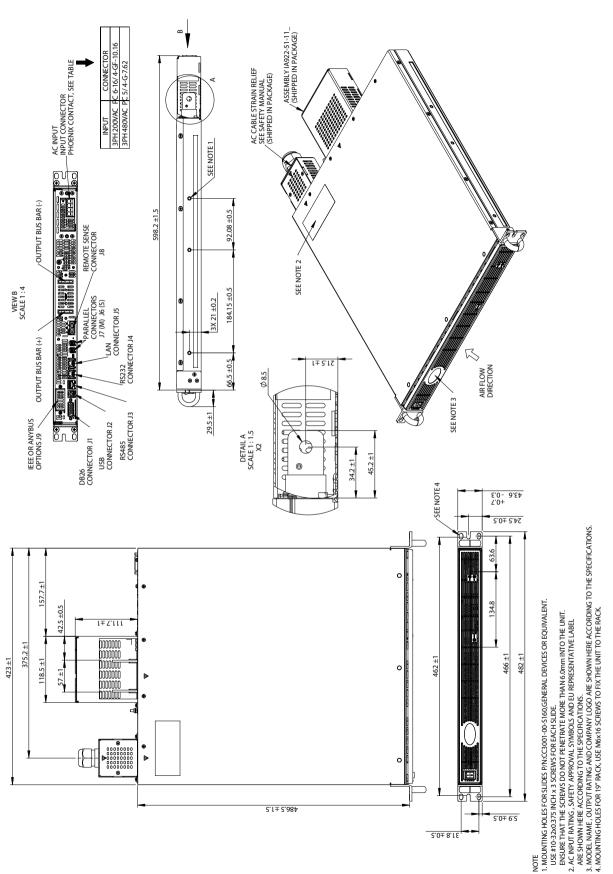
1. MOUNTING HOLES FOR SLIDES PAR.CG3001-00-5160,GENERAL DEVICES OR EQUIVALENT.
US# #10-320-325 (MAY AS SCREWS FOR REACH SLIDE.
ENSURE THAT THE SCREWS DO NOT PENETRATE MORE THAN 6,0mm INTO THE UNIT.
2. AC INPUT RATING , SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE LABEL
ARE SHOWNH HERE ACCORDINGT OT THE SPECIFICATIONS.
3. MODEL NAME, OUTPUT RATING AND COMPANY LOGO ARE SHOWN HERE ACCORDING TO THE SPECIFICATIONS.
4. MOUNTING HOLES FOR 19" PACK, USE MAX IS SCREWS TO FIX THE UNIT TO THE PACK.

G+7.5KW 20V~100V

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

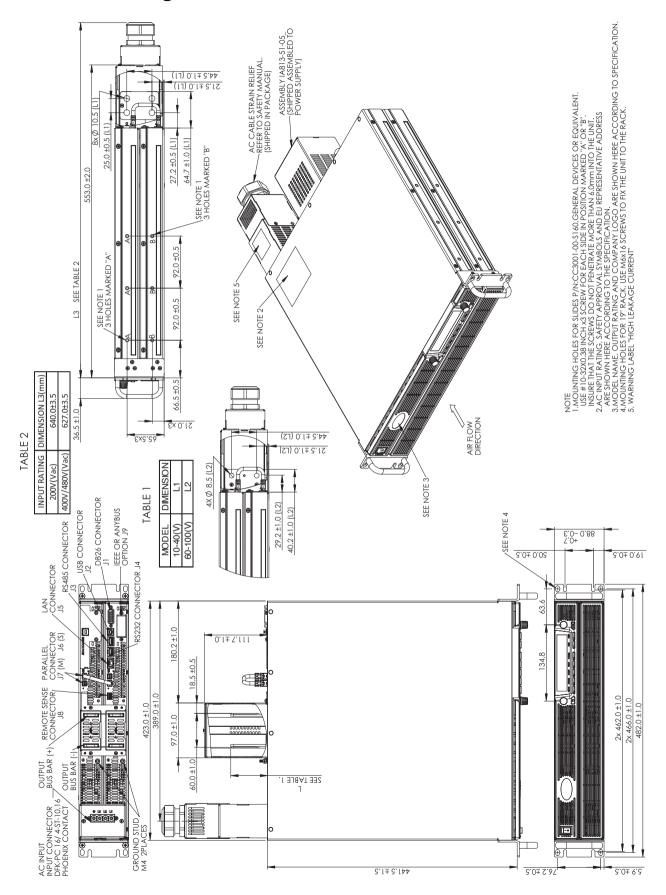


Outline Drawing GENESYS[™] GB7.5kW ATE Version

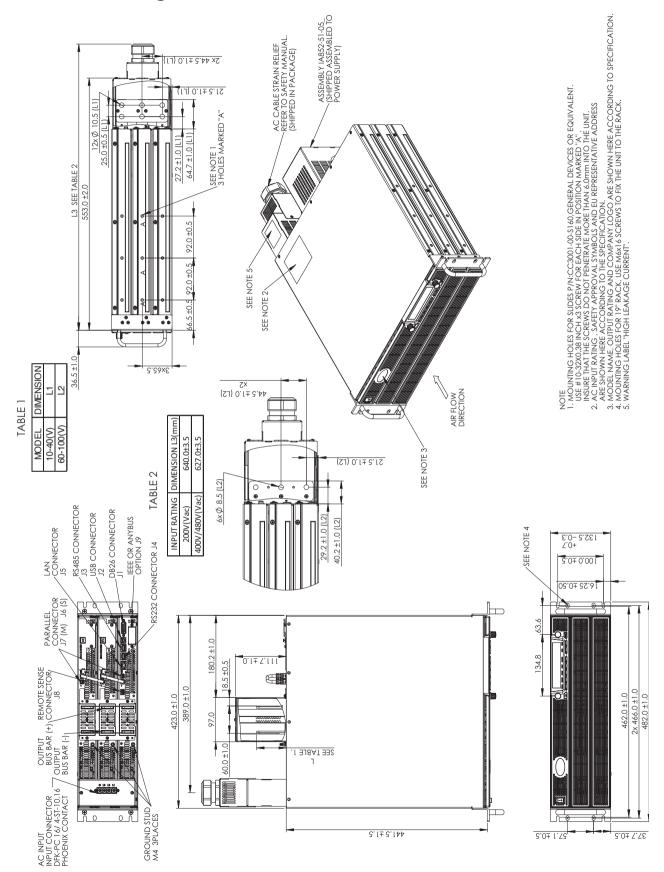


G+7.5KW BLANK 150V~1500V

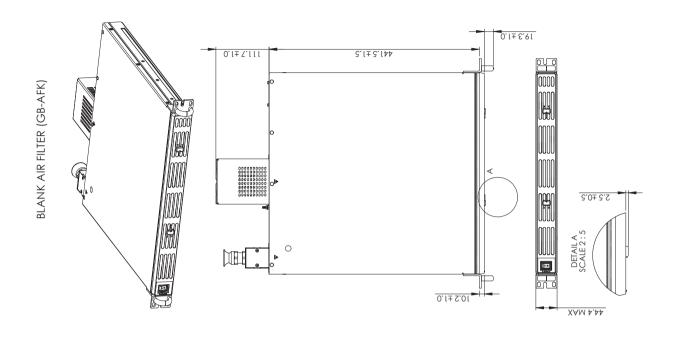
Outline Drawing **GENESYS™** GSP10kW

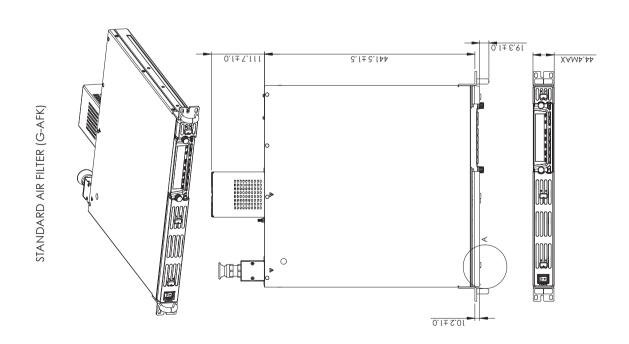


Outline Drawing GENESYS™ GSP15kW



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



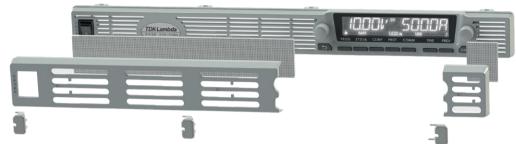


Front Panel Air Filter Assembly

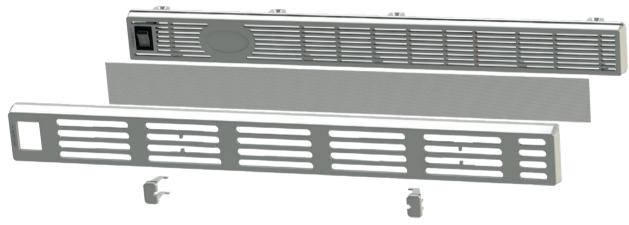
Front panel dust cover is available for dusty air environment applications

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)

-TDK·Lambda

DISTRAME SA

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SVSTM Series Rev. K



GLOBAL NETWORK