



GENESYS G Series

Programmable DC Power Supplies Full-Rack 1kW/1.7kW/2.7kW/3.4kW/5kW/7.5kW in 1U Height GSP 10kW/15kW in 2U/3U Height

! Advanced Features Built-In!

- Arbitrary Waveform Generator with Auto-Trigger Capability
 - Programmable Slew Rate Control (Vout/Iout)
- Constant Power Limit Operation Internal Resistance Programming
 - Built-In Remote Isolated Analog Interface
 - Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 - Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 - Blank Front Panel Option Available





Trusted • Innovative • Reliable



The GENESYS[™] family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

Features include:

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

Applications

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

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

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

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

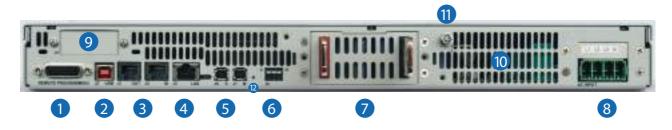
OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.

G1kW-7.5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master Unit-to-Slave and Slave Unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >100V.
- 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.
- 13. G+ 5kW 1000V and 1.500V has the same housing as 7.5kW

G7.5kW Rear Panel Description



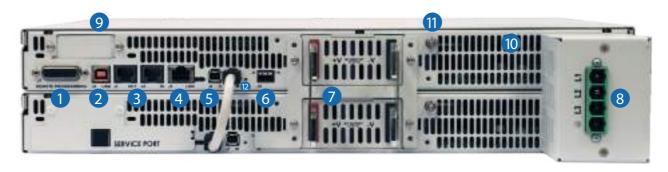
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

GSP10kW Front Panel Description



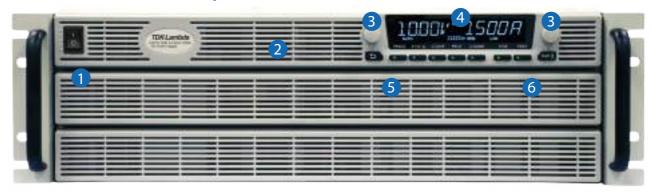
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP10kW Rear Panel Description



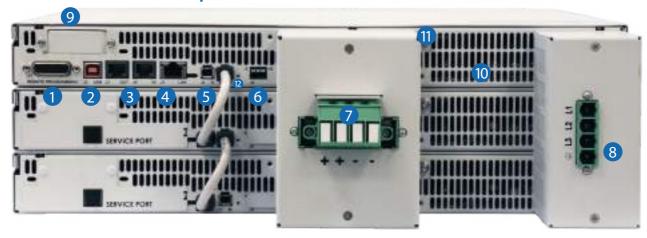
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto paralleling Bus connectors (mini I/O type) for connecting Master unit-to-Slave and Slave unit-to-Slave unit.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to and including 100V Output; Plug connector: PHOENIX CONTACT DFK-IPC 16/4-STF-10.16 for models with Outputs >100V.
- 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



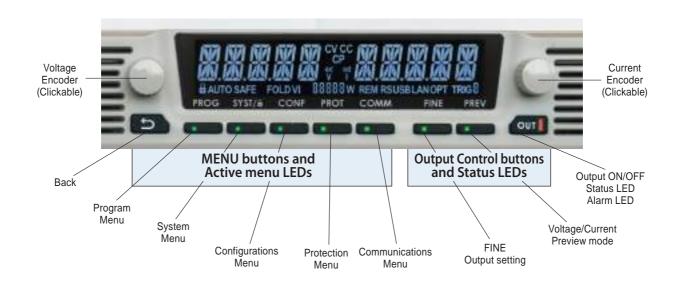
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

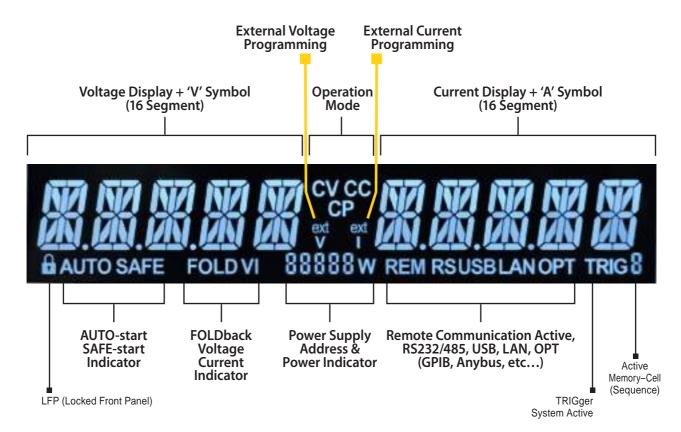


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators



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

The Blank Front Panel option has all the standard product functions and features except the display. The power supply can be controlled via the rear panel Remote digital interface (LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

GENESYS™ Parallel and Series Configurations

Parallel operation - Master/Slave:

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

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

Separate Parallel Kit available for 30kW (6 unit) systems allowing easy system setup.

Order P/N: G/P - 6U

Standard & Blank - zero stacked up to 12 units

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).

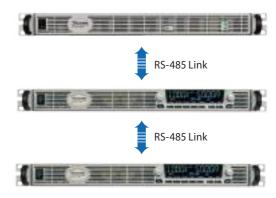
Multi-Drop Remote Programming via Communication Interface

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.







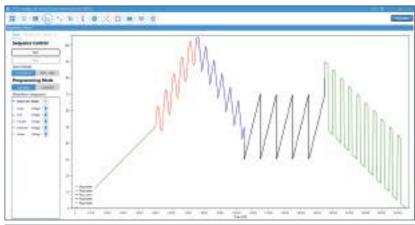
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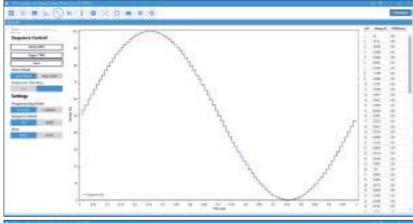
Graphical User Interface

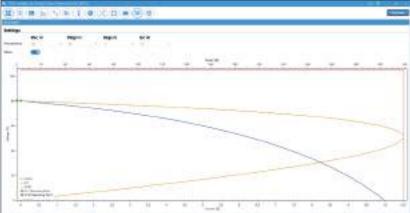
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

- 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.

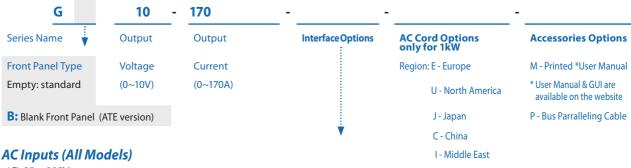
GUI Waveform Profile Generator







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



1Ø, 85 ~ 265Vac

P/N
-
-
-
IEEE
MDBS
ECAT
IS420

Models 1kW

Model	Voltage (V)	Current (A)	Power (W)	Model
G10-100	0~10V	0~100	1000	G80-12.5
G20-50	0~20V	0~50	1000	G100-10
G30-34	0~30V	0~34	1020	G150-7
G40-25	0~40V	0~25	1000	G300-3.
G60-17	0~60V	0~17	1020	G600-1.7

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

Models 1.7kW

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

Model	Voltage (V)	Current (A)	Power (W)
G80-21	0~80V	0~21	1680
G100-17	0~100V	0~17	1700
G150-11.2	0~150V	0~11.2	1680
G300-5.6	0~300V	0~5.6	1680
G600-2.8	0~600V	0~2.8	1680

Accessories

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

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

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

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

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

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

3. Bus Paralleling cable

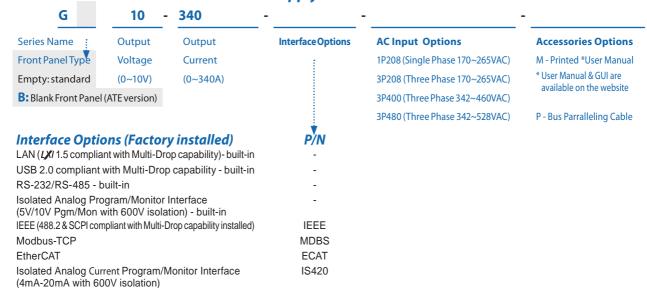
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Connectors	Cables	P/N		
2013595-1 (TYCO)	Shielded L=11cm	G/P		

4. User Manual

Printed User Manual	G/M

TDK·Lambda

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



Models G2.7kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model
G10-265	0~10V	0~265	2650	G80-34
G20-135	0~20V	0~135	2700	G100-2
G30-90	0~30V	0~90	2700	G150-1
G40-68	0~40V	0~68	2720	G300-9
G60-45	0~60V	0~45	2700	G600-

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

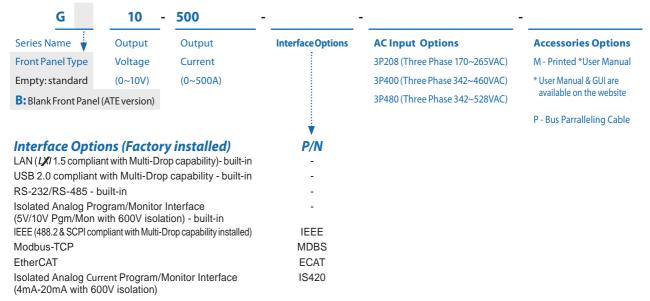
3. Bus Paralleling cable

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

4. User Manual

Printed User Manual G/M

How to order G5kW - Power Supply Identification / Accessories



Models 5kW

	TOUCIS SILT						
Model	Voltage (VDC)	Current (A)	Power (W)	Model	Voltage (VDC)	Current (A)	Power (W)
G10-500	0~10V	0~500	5000	G150-34	0~150V	0~34	5100
G20-250	0~20V	0~250	5000	G200-25	0~200V	0~25	5000
G30-170	0~30V	0~170	5100	G300-17	0~300V	0~17	5100
G40-125	0~40V	0~125	5000	G400-13	0~400V	0~13	5200
G50-100	0~50V	0~100	5000	G500-10	0~500V	0~10	5000
G60-85	0~60V	0~85	5100	G600-8.5	0~600V	0~8.5	5100
G80-65	0~80V	0~65	5200	G1000-5	0~1000V	0~5	5000
G100-50	0~100V	0~50	5000	G1500-3.4	0~1500V	0~3.4	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

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Printed User Manual	G/M		

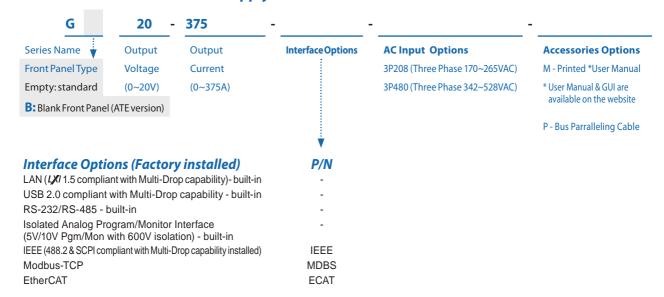
5. Parallel Kit: 20kW/30kW

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)

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



Models 7.5kW

Model	Voltage (VDC)	Current (A)	Power (W)	М
G20-375	0~20V	0~375	7500	G1
G30-250	0~30V	0~250	7500	G2
G40-188	0~40V	0~188	7520	G3
G60-125	0~60V	0~125	7500	G6
G80-94	0~80V	0~94	7500	G1
G100-75	0~100V	0~75	7500	G1

Model	Voltage (VDC)	Current (A)	Power (W)
G150-50	0~150V	0~50	7500
G200-37.5	0~200V	0~37.5	7500
G300-25	0~300V	0~25	7500
G600-12.5	0~600V	0~12.5	7500
G1000-7.5	0~1000V	0~7.5	7500
G1500-5	0~1500V	0~5	7500

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

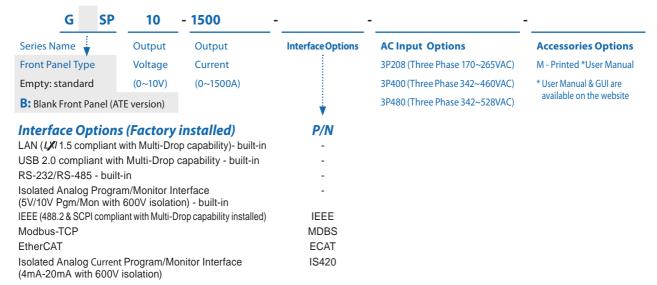
Printed User Manual G/M	
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5. Parallel Kit: 30kW/45kW

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

Models GSP 15kW

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

Model	Model Voltage (VDC)		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	

Current (A)

0~100

0~68

0~50

0~34

0~26

0~20

0~17

Power (kW)

10

10.2

10

10.2

10.4

10

10.2

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
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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	5kW - HV	7.5kW	10kW	15kW
Voltage Range				Cı	urrent Ran	ge (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	-	-	-	-		0~0.5A	0~7.5A	-	-
0-1500V		- [-			0~3.4A	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	8.5/18.7	15.5/34.2	23.5/51.8

AC Input Range

Rat	ed Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW
1Ø, 8	85-265Vac	*	*	N/A	N/A	N/A	N/A	N/A	N/A
1Ø, 1	70-265Vac			*	*	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

			·				1				
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)	A	100	50	34	25	17	12.5	10	7	3.5	1.7
3.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47			00	00	100	150	300	
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5	Ontinuous, 47	osi iz, sirigic	Tituse						
3.Power Factor (Typ)			c 0.98 @ 200	Vac rated out	nut nower						
4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50A		07/05	07/09	07/07	07/07	00/30	00/30	00/30	00/30
	-	Less than 507		1							
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	9	20	100
5.Temperature coefficient	_	50PPM/°C fro			lowing 30 min	utes warm-u					
6.Temperature stability							p. Constant lin	e load & tem	n		
7. Warm-up drift							wing power on		ρ.		
	-				т				-	-	-
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
10.Down-prog.response time:	mS	35	30	60	60	60	60	80	120	220	220
No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS								rated output c	urrent. Outpu	t set-point:
				than 1mS, for	r models up to	and includin	g 100V. 2mS, fo	or models abo	ove 100V.		
12.Start up delay	Sec	Less than 6 Se	ec								
13.Hold-up time	mS				20	ms typical, ra	ted output po	wer			
CONSTANT CURPENT MODE	V	10	20	30	40	60	90	100	150	200	600
CONSTANT CURRENT MODE	+	10			40	60	80	100	150	300	600
1.Max. Line regulation (*6)		+	d output curr								
2.Max. Load regulation (*9)			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
E Tompovatura coefficient	PPM/°C	10V~100V	100PPM/°C fr	om rated out	out current, fo	llowing 30 m	inutes warm-u	p.			
5.Temperature coefficient	PPIVI/ C	150V~600V	70PPM/°C fro	m rated outp	ut current, follo	owing 30 mir	utes warm-up				
6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-u	p. Constant lin	e, load & tem	perature.		
,		10V~100V mg	odel: Less than	+/-0.25% of i	ated output c	urrent over 3	0 minutes follo	wing power o	on.		
7. Warm-up drift							utes following				
			ess than 17 o		output current		ates ronowing	porrer orn			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM 1	THE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-	0.4% of rated lo	out.			
3.Vout resistor programming		0~100%, 0~5	/10Kohm full:	scale, user sel	ectable. Accur	acy and linea	rity: +/-0.5% of	f rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acv and linea	rity: +/-0.5% of	f rated lout.			
5.Output voltage monitor					v: +/-0.5% of ra		,,				
6.Output current monitor (*14)					r: +/-0.5% of ra						
o.output current monitor (14)		034 01 010	v, user selecti	able. Accuracy	7. +/-0.5 /0 OI Ta	iteu iout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	IT)										
1. Power supply OK #1 signal		Power supply	output moni	tor. Open coll	ector. Output	On: On. Outp	ut Off: Off. Ma:	ximum Voltag	je: 30V, Maximi	um Sink Curre	nt: 10mA.
2. CV/CC signal		CV/CC Monite	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	ım Voltage: 30	V, Maximum S	Sink Current: 10	mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming co	ntrol by electr	ical signal or	dry contact. Re	emote: 0~0.6\	or short. Loca	l: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal									ltage: 30V, Max		
									er selectable lo		IUIIIA.
5. ENABLE/DISABLE signal	+						-			yıc.	
6. INTERLOCK (ILC) control							e: 0~0.6V or sh			, ,	
7. Programmed signals									hunted by 27V		
8. TRIGGER IN / TRIGGER OUT signals									ximum high l	evel input =	5V positive
<u> </u>	1					iuiii, iviin de	lay between	∠ puises im	٥.		
9. DAISY_IN/SO control signal		+ -	Voltage: 0~0.6		ry contact.		-		-		
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK, 0V	(500ohm imp	edance)=Fail							
FUNCTIONS AND FEATURES											
1. Parallel operation		Possible Uni	to 4 identical	inits in Masto	r/Slave modo	Refer to instr	uction manual				
	_						uction illatidal				
2. Series operation					truction manu						
3. Daisy chain							r turn-on and				
4. Constant power control							-		or the front par		
5. Output resistance control		Emulates seri	es resistance.	Resistance ra	nge: 1~1000m	Ω. Programn	ning via the co	mmunication	ports or the fr	ont panel.	
6. Slew rate control						rogramming	range: 0.0001~	-999.99 V/mSe	ec. or A/mSec.	Programming	via the
	-		on ports or th								
7. Arbitrary waveforms		Profiles of up	to 100 steps	an be stored	in 4 memory c	ells. Activation	n by comman	d via the com	munication po	rts or by the fr	ont panel.
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces)	٧	10	20	30	40	60	80	100	150	300	600
1.Vout programming accuracy (*15)		0.05% of rate	d output volta	age							
2.lout programming accuracy (*14)					ted output cui	rrent					
					ica output cui	nent					
3.Vout programming resolution	_		ed output vol								
4.lout programming resolution			ed output cur								
5.Vout readback accuracy		0.05% of rate	ed output volt	age							
6.lout readback accuracy (*14)		0.2% of rated	output curre	nt					0.25% of rate	d output curr	ent
7.Vout readback resolution (of rated output voltage)	%	0.011%	0.006%	0.004%	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%
8.lout readback resolution (of rated output current))	%	0.011%	0.003%	0.004%	0.005%	0.007%	0.009%	0.011%	0.015%	0.004%	0.007`%

GENESYS™ 1.7kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	A	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	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3) 2. Maximum Input current at 100% load (100/200)	Α	85~265Vac, c	ontinuous, 4/	~63Hz,Single	Phase						
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)	Α	Less than 50/	١								
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output volta								
2.Max. Load regulation (*7)			d output volta								
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60 7	60 7	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8) 5.Temperature coefficient	mV PPM/°C	6 50PPM/°C fro	m rated outpu	6 ut voltage, fol			10	12	8	20	100
6.Temperature stability							p. Constant lin	e. load & temr).		
7. Warm-up drift							ving power on				
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:	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						r a load chang g 100V. 2mS, fo			urrent. Output	t set-point:
12.Start up delay	Sec	Less than 6 Se					J				
13.Hold-up time	mS				16	ms typical, rat	ted 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		TU	00	00	100	150	300	000
2.Max. Load regulation (*9)			d output curre								
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C						nutes warm-u				
	FFIVI/ C						utes warm-up.				
6.Temperature stability							o. Constant line				
7. Warm-up drift							minutes follo		n.		
		150V~600V: I	.ess than +/-u.	.15% of rated c	output current	over 30 minu	ites following	oower on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED											
1.Vout voltage programming							0.15% of rated \				
2.lout voltage programming (*14) 3.Vout resistor programming).4% of rated lo rity: +/-0.5% of				
4.lout resistor programming (*14)							rity: +/-0.5% of				
5.Output voltage monitor				able. Accuracy			,,				
6.Output current monitor (*14)				able. Accuracy							
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)										
1. Power supply OK #1 signal		Power supply	output moni	tor. Open colle	ector. Output	On: On. Outp	ut Off: Off. Max	cimum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal							m Voltage: 30				
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming cor	ntrol by electr	ical signal or o	dry contact. Re	mote: 0~0.6V	or short. Loca	l: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal							On. Local: Off.				rrent: 10mA.
5. ENABLE/DISABLE signal							or short, 2~30			ogic.	
6. INTERLOCK (ILC) control							:: 0~0.6V or sho			(= 0 = 0 =)	
7. Programmed signals							mum sink curr input voltage				5V nositivo
8. TRIGGER IN / TRIGGER OUT signals							lay between :				
9. DAISY_IN/SO control signal				5V/2~30V or dr	y contact.						
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK, 0V	(500ohm imp	edance)=Fail							
FUNCTIONS AND FEATURES											
1. Parallel operation		Possible. Up	ο 4 identical ι	units in Master	/Slave mode.	Refer to instru	ıction manual.				
2. Series operation				ts. Refer to ins							
3. Daisy chain							r turn-on and t				
4. Constant power control							the communi				
5. Output resistance control							ning via the cor		·		via the
6. Slew rate control				e front panel.	an siew idle. P	ogramming i	ange. 0.0001~	->5.55 V/IIISE	c. or A/III3eC.	i rogramming	via tile
7. Arbitrary waveforms		Profiles of up	to 100 steps o	can be stored i	n 4 memory c	ells. Activatio	n by command	d via the comr	nunication po	rts or by the fr	ont panel.
					40	60	80	100	150	300	600
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces)	V	10	20	30	40			100	150	300	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15)	V	0.05% of rate	d output volta	l age				100	150	300	
RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14)		0.05% of rate 0.1% of actua	d output volta I output curre	age ent+0.2% of ra				100	150	300	
RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution		0.05% of rate 0.1% of actua 0.002% of rat	d output volta l output curre ed output vol	l age nt+0.2% of ra tage				100	150	300	
RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution		0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat	d output volta l output curre ed output vol ed output cur	l age ent+0.2% of rai tage rent				100	150	300	
RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy		0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	d output volta l output curre ed output vol ed output cur ed output volt	l age ent+0.2% of rai tage rent age				100	130	300	
RS232/485, Optional IEEE (*18) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution		0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	d output volta l output curre ed output vol ed output cur	l age ent+0.2% of rai tage rent age			0.002%	0.011%	0.007%	0.004%	0.002%

GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	60	80	100	150	300	600				
1.Foldback protection			Output shut- User presetal	down when pole. Reset by A	ower supply o	hanges mode le in autostart	from CV or P mode, by Po	ower Limit to wer Switch, by	CC mode or fro	om CC or Pow on, by rear pa	er Limit to CV nel or by com	mode. munication.				
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input re	cycle in autost	art mode, by	OUTPUT butto	on, by rear par	el or by comr	nunication.					
3.Over -voltage programming rang	ge	V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5				
4. Over-voltage programming accu				d output volta												
5.Output under voltage limit (UVL)						t. Does not ap		programming	j. Preset by fro	nt panel or co	mmunication	port.				
6.Over temperature protection						y autostart mo	de.									
7. Output under voltage limit (UVL)			Prevents adju	istment of Voi	ut below limit											
8. Output under voltage protection	n (UVP)		Prevents adjumode, by Pov	ıstment of Vou ver Switch, by	ut below limit OUTPUT but	. P.S output tu ton, by rear pa	ns Off during nel or by con	g under voltag nmunication.	je condition. R	eset by AC inp	out recycle in a	autostart				
FRONT PANEL																
1.Control functions			Multiple opti	ons with 2 End	oders											
				wer Limit mar												
			OVP/UVL/UV	P manual adju	ıst											
			Protection Fu	inctions - OVP	, UVL,UVP, Fol	dback, OCL, El	NA, ILC									
			Communicat	ion Functions	- Selection of	LAN,IEEE,RS2	32,RS485,USE	or Optional c	ommunication	n interface.						
			Output ON/C	FF. Front Pane	el Lock.											
						Baud Rate, Ad										
			Analog Contr	ol Functions -	Selection Vo	tage/resistive	programmin	g, 5V/10V, 5K/	10K programn	ning						
						Voltage/Curre		g 5V/10V.								
2.Display						utput voltage										
						tput current +/										
3.Front Panel Buttons Indications			OUTPUT ON,	ALARM, PREV	IEW, FINE, CO	MMUNICATION	I, PROTECTIO	N,CONFIGUR	ATION, SYSTEN	A, SEQUENCE	₹.					
4. Front Panel Display Indications			Voltage, Curr (communicat	DUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER. /oltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.												
ENVIRONMENTAL CONDITIONS																
1.Operating temperature			0~50°C, 1009	6 load						-	-					
2.Storage temperature			-30~85°C	0.1000.												
		%			:\											
3.Operating humidity				no condensati												
4.Storage humidity		%		no condensati												
5.Altitude			Operating: 10	000ft (3000m), output curr	ent derating 29	%/100m or Ta	derating 1°C/	100m above 20	000m. Non op	erating: 40000	Oft (12000m).				
MECHANICAL																
1.Cooling			Forced air co	oling by interr	nal fans. Air flo	ow direction: fi	om Front pa	nel to power s	upply rear							
2.Weight		kg	Less than 5kg													
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 441.5	(Without bu	usbars and bu	isbars cove	r), er) (Refer to 0	Outline drawi	ing).						
4.Vibration			MIL-810G, me	thod 514.6, Pi	rocedure I, tes	t condition Ar	nex C - 2.1.3.	.1								
5.Shock			Less than 200	, half sine, 11r	mSec. Unit is u	unpacked.										
SAFETY/EMC																
	Safety G1kW/G1.7kW		III 61010 1 C	SA 22 2 No. 610	10-1 JEC6101	0-1, EN61010-1										
i.Applicable stallualus.	Jaiety GIKW/GI./KW								\							
1.1. Interface classification	G1kW/1.7kW					5, J6, J7, J8 (ser ise) are hazard					are Non Haz	ardous.				
1.2 Withstand voltage	G1kW/1.7kW		Input - Groud 60V≤Vout≤1 Output & J8 Output & J8 100V <vout≤ Output & J8 Output & J8</vout≤ 	nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models	3 1min. Input – Outp J2, J3, J4, J3 Jund: 1500VI I: Input – Out J2, J3, J4, J3 Jund: 2500VI	3 (sense), J1, out & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9 DC 1min.	e), J1, J2, J3 (communicat - Ground: Se), J1, J2, J	3, J4, J5, J6, c ation options) 2835VDC 1m 3, J4, J5, J6.	J7 & J9 (comr : 850VDC 1m in. J7 and J9 (co	nunication of in.	otions): 4242\	VDC 1min,				
1.3 Insulation resistance			100Mohm at	25°C, 70%RH.	Output to Gr	ound 500VDC										
2.Conducted emmision			IEC/EN61204	-3 Industrial e	nvironment, A	Annex H table I	H.1 , FCC Part	15-A, VCCI-A .								
3.Radiated emission						Annex H table I			VCCI-A							
	EMC (*4)			IEC/EN61204-												
			, , , ,													

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

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

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

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

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

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

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

 **7: From No-Load to Full-Load, constant input voltage.

 **8: For 10V-150V models: Measured with JEITA RC-913TC (1:1) probe. For 200~600V models: Measured with 100:1 probe.

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

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

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

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

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

 **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.

 **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 10W 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 programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 **15: Measured at the sensing point.

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

 **17: Ta=25°C, rated output power.

GENESYS™ 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
					-							
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
					~265Vac, 47~6							
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)				~460Vac, 47~							
					265Vac, 47~				ac)			
	3-Phase, 200V models:		10A @ 200Vac		~265Vac, 47~6	STIZ (COVEIS 2	200/200/230/2	(40VaC)				
3 Maximum Innut surrent at	3-Phase, 400V models:		5.5A @ 380Va									
2. Maximum Input current at 100% load	3-Phase, 480V models:		5.5A @ 380Va						-			
100701000	1-Phase, 200V models:		16.5A @ 200V									
	1-Filase, 2007 illoueis.				30Vac, rated ou	itnut nower					-	
3.Power Factor (Typ)					, rated output							
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50A		05.5	30	, ,,	70.5	70.5	70.5	30.5	70.5
			Ecss triair 507									
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)			0.01% of rate	d output volta	age +5mV							
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			50PPM/°C fro	m rated outp	ut voltage, fol	lowina 30 mir	nutes warm-u					
6.Temperature stability					hrs interval fol				ne load & tem	in.		
7. Warm-up drift					utput voltage					r.		
8. Remote sense compensation/w	/ire (*10)	V	2	2	5	5	5	5 5	5	5	5	5
	vii e (10)		30	30	30	30			50	50	50	100
9.Up-prog. Response time (*11)	F. II I (*444)	mS c					50	50				
10.Down-prog.response time:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
, . 5 ,	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11.Transient response time		mS	Time for outp	ut voltage to	recover withi	n 0.5% of its ra	ated output fo	or a load chan	ge 10~90% of	rated output	current. Outp	ut set-point:
					s than 1mS, fo	models up to	and includin	y 100V. 2mS, 1	or models ab	ove 100V.		
12.Start up delay		Sec	Less than 6 Se	·C								
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate						1.00	150	300	000
2.Max. Load regulation (*13)			0.08% of rate									
3.Ripple r.m.s. @ rated voltage. 3-	Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
			≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
4.Ripple r.m.s. @ rated voltage. 1-	Phase (*14)	mA								≤40	<u>≤12</u>	58
5.Temperature coefficient		PPM/°C			rom rated out							
					m rated outp							
6.Temperature stability					rs. interval fol							
7. Warm-up drift					n +/-0.25% of i					on.		
			150V~600V: L	ess than +/-0	.15% of rated	output curren	t over 30 mini	utes following	power on.			
ANALOG PROGRAMMING AND N	MONITORING (ISOI ATEC	FROM	THE OUTPUT)									
1.Vout voltage programming	HOMITOMING (ISOLITIES			V or 0~10V us	1 . 11		10 0 . 7	15% of rated	11/			
1.vout voitage programming						Accuracy and						
	-\					Accuracy and						
2.lout voltage programming (*15	5)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	l linearity: +/-	0.4% of rated	lout.			
2.lout voltage programming (*15 3.Vout resistor programming			0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full	ser selectable. scale, user sel	Accuracy and ectable. Accur	l linearity: +/- racy and linea	0.4% of rated rity: +/-0.5% o	lout. of rated Vout.			
2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming (*15			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us /10Kohm full /10Kohm full	ser selectable. scale, user sel scale, user sel	Accuracy and ectable. Accuracy	l linearity: +/- racy and linea	0.4% of rated rity: +/-0.5% o	lout. of rated Vout.			
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 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	l linearity: +/- racy and linea	0.4% of rated rity: +/-0.5% o	lout. of rated Vout.			
2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming (*15			0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	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	l linearity: +/- racy and linea	0.4% of rated rity: +/-0.5% o	lout. of rated Vout.			
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 0~5V 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	l linearity: +/- racy and linea	0.4% of rated rity: +/-0.5% o	lout. of rated Vout.			
2. lout voltage programming (*15 3. Vout resistor programming 4. lout resistor programming (*15 5. Output voltage monitor 6. Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA	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 selects V, user selects	ser selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy ectable. Accuracy: +/-0.5%.	l linearity: +/- racy and linea racy and linea	0.4% of rated rity: +/-0.5% c rity: +/-0.5% c	lout. of rated Vout. of rated lout.	ge: 30V. Maxin	num Sink Curr	ent: 10mA.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal	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 selecta V, user selecta	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy	Accuracy and ectable. Accuracy ectable. Accuracy ectable. Accuracy: +/-0.5%.	I linearity: +/- racy and linea racy and linea On: On. Outp	0.4% of rated rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma	lout. of rated Vout. of rated lout. aximum Volta		num Sink Curr	ent: 10mA.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 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, 0~5V or 0~10 0~5V or 0~10 Power supply	V or 0~10V, us /10Kohm full /10Kohm full V, user selecti V, user selecti output moni or. Open colle	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ector. CC mode	Accuracy and ectable. Accuracy acceptable. Accuracy ectable. Accuracy: +/-0.5%. r: +/-0.5%. ector. Output:: On. CV model	I linearity: +/- racy and linearacy and line	0.4% of rated rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Ma um Voltage: 30	lout. of rated Vout. of rated lout. aximum Voltagov, Maximum	Sink Current:	10mA.	
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) 5.IGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	S) ATED FROM THE OUTPU	T)	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 selecta V, user selecta output moni or. Open colle le analog pro	ser selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy itor. Open coll sctor. CC mode	Accuracy and ectable. Accur ectable. Accur ectable. Accur r: +/-0.5%. r: +/-0.5%. ector. Output ector. Output on. CV modentrol by electi	I linearity: +/- racy and linea racy and linea On: On. Outp e: Off. Maximu rical signal or	0.4% of rated rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Ma um Voltage: 30 dry contact. R	lout. of rated Vout. of rated lout. of rated lout. aximum Volta ov, Maximum emote: 0~0.6	Sink Current: V or short. Loc	10mA. cal: 2~30V or o	pen.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	S) ATED FROM THE OUTPU	TT)	0~100%, 0~5' 0~100%, 0~5, 0~100%, 0~5, 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra	V or 0~10V, us /10Kohm full /10Kohm full V, user selects V, user selects output moni or. Open colle le analog pro	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co ol monitor sigi	Accuracy and ectable. Accuracy and ectap. Ectable. Accuracy and ectap. Ectable. On. CV modulation by electronal. Open collections.	I linearity: +/- racy and linea racy and linea On: On. Outp e: Off. Maximurical signal or ector. Remote:	0.4% of rated rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3 dry contact. R On. Local: Off.	lout. of rated Vout. of rated lout. aximum Volta, OV, Maximum emote: 0~0.6	Sink Current: V or short. Loc Itage: 30V, Ma	10mA. cal: 2~30V or o ximum Sink Cu	pen.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL 1. Power supply OK #1 signal 2. C.VICC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	S) ATED FROM THE OUTPU	T)	0~100%, 0~5' 0~100%, 0~5, 0~100%, 0~5, 0~5V or 0~10 0~5V or 0~10 CV/CC Monitc Enable/Disab analog progra Enable/Disab	V or 0~10V, us /10Kohm full /10Kohm full V, user selects V, user selects output moni or. Open colle le analog pro	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll ector. CC mode ogramming co ol monitor sig by electrical si	Accuracy and ectable. Accuracy and ectar. Accuracy and ectar. Output and one colleagual or dry colleagual or dry co	I linearity: +/- racy and linea racy and linea On: On. Outp e: Off. Maximurical signal or ector. Remote: ntact. 0~0.6V	0.4% of rated rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma um Voltage: 3 dry contact. R On. Local: Off or short, 2~3	out. of rated Vout. of rated lout. oximum Volta, ov, Maximum emote: 0~0.6 . Maximum Vo ov or open. Us	Sink Current: V or short. Loc Itage: 30V, Ma ser selectable	10mA. cal: 2~30V or o ximum Sink Cu	pen.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	S) ATED FROM THE OUTPU	T)	0~100%, 0~5' 0~100%, 0~5, 0~100%, 0~5, 0~100%, 0~5, 0~5V or 0~10 0~5V or 0~10 CV/CC Monito Enable/Disab analog progra Enable/Disab Enable/Disab	V or 0~10V, us /10Kohm full /10Kohm full V, user select. V, user select. output moni or. Open colle le analog pro imming contr le PS output l le PS output l	ser selectable. scale, user sele scale, user sele able. Accuracy able. Accuracy itor. Open coll corrector. CC mode corrector in coll corrector in coll itor. Open coll itor. O	Accuracy and ectable. Conc. CV modern and the ectable. Open colleginal or dry cognal o	On: On. Outpe: Off. Maximurical signal or ector. Remote: ntact. 0~0.6V	0.4% of rated rity: +/-0.5% of rity: +/-0.5% of ut Off: Off. Ma am Voltage: 30 dry contact. R On. Local: Off or short, 2~31 e: 0~0.6V or sl	lout. of rated Vout. of rated lout. aximum Voltai OV, Maximum emote: 0~0.6' Maximum Vo OV or open. Us nort. Local: 2~	Sink Current: V or short. Loo Itage: 30V, Ma: ser selectable 30V or open.	10mA. cal: 2~30V or o ximum Sink Cu logic.	pen.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOL) 1. Power supply OK #1 signal 2. C.V/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ATED FROM THE OUTPU	T)	0~100%, 0~5' 0~100%, 0~5, 0~100%, 0~5, 0~100%, 0~5, 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab	V or 0~10V, us /10Kohm full /10Kohm full V, user select. V, user select. output moni or. Open colle le analog pro imming contr le PS output l le PS output l in programm	ser selectable. scale, user selectable. scale, user selectable. Accuracy able. Accuracy itor. Open collector. CC mode open monitor sign by electrical si by electrical si bable signals. I	Accuracy and ectable. Accuracy and ectar. Output and output ectar. O	On: On. Outpe: Off. Maximirical signal off. Cotor, Remote: off. Remote	0.4% of rated rity: +/-0.5% or short, 2~3(e: 0~0.6V or shimum sink cui	Jout. of rated Vout. of rated lout. over the state of	Sink Current: V or short. Loc Itage: 30V, Maz ser selectable 30V or open. Shunted by 27	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener)	pen. rrent: 10mA.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ATED FROM THE OUTPU	T)	0~100%, 0~5' 0~100%, 0~5, 0~100%, 0~5, 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum Ic	V or 0~10V, us /10Kohm full /10Kohm full /10Kohm full V, user select v, user select output moni or. Open colle le analog pro umming contr le PS output I le PS output I in programm ow level inpy	ser selectable. scale, user sel- scale, user sel- able. Accuracy able. Accuracy itor. Open coll sector. CC mode ogramming co ool monitor sigi by electrical si by electrical si by electrical si ut voltage = 1	Accuracy and ectable. Accuracy and ectar. Output and of ectable. Open colleagual or dry cognal or dry	On: On. Outpe e: Off. Maximirical signal or ector. Remote: ntact. 0~0.6V mage 25V, Max m high level	0.4% of rated rity: +/-0.5% c rity: +/-0.5% c ut Off: Off. Ma m Voltage: 3 dry contact. R On. Local: Off or short, 2~3 te: 0~0.6V or si imum sink cui input volta	lout. of rated Vout. of rated lout. aximum Volta ov, Maximum emote: 0~0.6 Maximum Vo ov open. Us over Local: 2~ rrent 100mA (§ ge = 2.5V, Maximum generation (§)	Sink Current: V or short. Loc Itage: 30V, Mai ser selectable 30V or open. Shunted by 27 eximum high	10mA. cal: 2~30V or o ximum Sink Cu logic.	pen. rrent: 10mA.
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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 (ISOL 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 signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READB/ RS232/485, Optional IEEE(*19 1.Vout programming accuracy (*1) 2. Iout programming accuracy (*1) 3. Vout programming resolution 4. Iout programming resolution 5. Vout readback accuracy	ATED FROM THE OUTPU	T)	0~100%, 0~5' 0~100%, 0~5. 0~100%, 0~5. 0~100%, 0~5. 0~50 or 0~10 0~5V	V or 0~10V, us V or 0	ser selectable. scale, user sele itor. Open coll ctor. CC mode gramming co of monitor sig by electrical si sole electrical	Accuracy and accuracy ac	Ilinearity: +/- acy and linea acy	0.4% of rated rity: +/-0.5% c	lout. of rated Vout. of rated Vout. of rated Iout. siximum Volta of National Volta	Sink Current: V or short. Loc litage: 30V, Masiers selectable 30V or open. Shunted by 27 ximum high s. or the front p. p ports or the lec. or A/mSec	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener) al level input = anel. front panel. r. Programmin ports or by the	pen. rrent: 10mA. 5V positive g via the front panel.
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2.lout voltage programming (*15 3.Vout resistor programming 4.lout 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 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 signal 10. DAISY_IN/SO control signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READB/ RS232/485, Optional IEEE(*19 1.Vout programming accuracy (*1) 2. Jout programming accuracy (*1) 3. Vout programming resolution 4. Jout readback accuracy	ATED FROM THE OUTPU In anals ACK (USB, LAN, 1)(*20) Interfaces) (16) (15)	T)	0~100%, 0~5' 0~100%, 0~5. 0~100%, 0~5. 0~100%, 0~5. 0~50 or 0~10 0~5V	V or 0~10V, us V or 0	ser selectable. scale, user sele itor. Open coll ctor. CC mode gramming co of monitor sig by electrical si sole electrical	Accuracy and accuracy ac	Ilinearity: +/- acy and linea acy	0.4% of rated rity: +/-0.5% c	lout. of rated Vout. of rated Vout. of rated Iout. siximum Volta of National Volta	Sink Current: V or short. Loc litage: 30V, Masiers selectable 30V or open. Shunted by 27 ximum high s. or the front p. p ports or the lec. or A/mSec	10mA. cal: 2~30V or o ximum Sink Cu logic. 7V zener) al level input = anel. front panel. r. Programmin ports or by the	pen. rrent: 10mA. 5V positive g via the front panel.

GENESYS[™] 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100 31	150 22.5	300	600
2.Rated output current (*2)		A	340 (*3)	170	112	85	56	42	34	22.5	11.5	5.6
3.Rated output power		W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 wire	+ Ground (*4)		3-Phase, 400	V models: 342	.~460Vac, 47~	63Hz (Covers 2 63Hz (Covers 63Hz (Covers	380/400/415\	/ac) 140/460/480Va	ac)			
3-	Phase, 200V models:			V models: 170		63Hz (Covers 2						
100% load 3-	Phase, 400V models: Phase, 480V models:		6.5A @ 380Va 6.5A @ 380Va	ic								
3.Power Factor (Typ)	Phase, 200V models:		21A @ 200Va For 3-Phase:		0Vac, rated o	utput power.						
					, rated outpu							ı
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		Α	Less than 50/	4								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output volta								
2.Max. Load regulation (*8)				d output volta								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 mii						
6.Temperature stability								ıp. Constant li		ıp.		
7. Warm-up drift	(74.0)							wing power o				_
8.Remote sense compensation/wire	(*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
	ıll load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No.Down-prog.response time.	o load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time		mS						or a load chang ig 100V. 2mS, f		rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay		Sec	Less than 6 Se									
. ,												
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curr								
2.Max. Load regulation (*13)				d output curr						1	1	1
3.Ripple r.m.s. @ rated voltage. 3-Ph		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Ph	ase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C						inutes warm-u nutes warm-u				
6.Temperature stability								p. Constant li		perature.		
7. Warm-up drift			10V~100V mo	odel: Less thai	n +/-0.25% of	rated output o	current over 3	0 minutes foll	owing power			
			150V~600V: l	ess than +/-0	.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MO	NITORING (ISOLATED	FROM	THE OUTPUT)									
1.Vout voltage programming			0~100%, 0~5	V or 0~10V, us	ser selectable	. Accuracy and	d linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*15)								0.4% of rated				
3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accu	racy and linea	rity: +/-0.5% c	f rated Vout.			
4.lout resistor programming (*15)			0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accu	racy and linea	rity: +/-0.5% c	f rated lout.			
5.Output voltage monitor					able. Accurac							
6.Output current monitor (*15)			0~5V or 0~10	V, user select	able. Accurac	y: +/-0.5%.					,	
SIGNALS AND CONTROLS (ISOLATE	D FROM THE OUTPU	T)										
1. Power supply OK #1 signal	DTHOM THE COTT O		Power supply	/ outnut mon	itor Open col	lector Output	On On Outr	ut Off: Off Ma	vimum Volta	ge: 30V, Maxin	num Sink Curr	ent· 10m A
2. CV/CC signal										Sink Current:		ent. roma.
3. LOCAL/REMOTE Analog control										V or short. Loc		nen
4. LOCAL/REMOTE Analog control					5 					Itage: 30V, Ma		
5. ENABLE/DISABLE signal										ser selectable		irent. IUIIIA.
6. INTERLOCK (ILC) control											iogic.	
						-		e: 0~0.6V or sh			2/	
7. Programmed signals										Shunted by 27		- F\/ m:+:
8. TRIGGER IN / TRIGGER OUT signals	;		edge trigge	ow ievei inpi r: tw=10iis n	ut voitage = ninimum Tr	0.8V,Minimu Tf=111s Mayir	m nign ieve num. Min de	i input voitag lay between	je = 2.5V, Ma 2 nulses 1m	aximum high	ievei input =	= 5V positive
9. DAISY IN/SO control signal					6V/2~30V or d		a.ii, iviiii ue	y Detweel	- puises III			
10. DAISY_OUT/PS_OK #2 signal			,		pedance)=Fail	,						
			,		,							
FUNCTIONS AND FEATURES			D 11 11	411		(6)	D. C					
1. Parallel operation			rossible. Up 1	to 4 identical	units in Maste	r/Slave mode.	кетеr to instr	uction manua	l.			
·												
2. Series operation						truction man			. "			
2. Series operation 3. Daisy chain			Power suppli	es can be con	nected in Dai	sy chain to syr	nchronize the	ir turn-on and				
Series operation Daisy chain Constant power control			Power suppli Limits the ou	es can be con tput power to	nected in Dai a proggramr	sy chain to syr ned value. Pro	nchronize the ogramming vi	a the commur	ication ports	or the front p		
2. Series operation 3. Daisy chain			Power suppli Limits the ou Emulates ser	es can be con tput power to ies resistance.	nected in Dai o a proggramr . Resistance ra	sy chain to syr ned value. Pro nge: 1~1000r	nchronize the ogramming vi mΩ. Programr	a the commur ning via the co	ication ports mmunication	n ports or the	ront panel.	
Series operation Daisy chain Constant power control			Power suppli Limits the ou Emulates ser Programmab communicat	es can be con tput power to ies resistance. Ile Output rise ion ports or th	nected in Dai o a proggramr . Resistance ra e and Output t ne front panel	sy chain to syr ned value. Pro nge: 1~1000r fall slew rate. F	nchronize the ogramming vi mΩ. Programr Programming	a the commur ning via the co range: 0.0001	ication ports ommunication ~999.99 V/mS	n ports or the t sec. or A/mSec	ront panel. . Programmin	
Series operation Daisy chain Constant power control Output resistance control			Power suppli Limits the ou Emulates ser Programmab communicat	es can be con tput power to ies resistance. Ile Output rise ion ports or th	nected in Dai o a proggramr . Resistance ra e and Output t ne front panel	sy chain to syr ned value. Pro nge: 1~1000r fall slew rate. F	nchronize the ogramming vi mΩ. Programr Programming	a the commur ning via the co range: 0.0001	ication ports ommunication ~999.99 V/mS	n ports or the	ront panel. . Programmin	
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACH			Power suppli Limits the ou Emulates ser Programmab communicat	es can be con tput power to ies resistance. Ile Output rise ion ports or th	nected in Dai o a proggramr . Resistance ra e and Output t ne front panel	sy chain to syr ned value. Pro nge: 1~1000r fall slew rate. F	nchronize the ogramming vi mΩ. Programr Programming	a the commur ning via the co range: 0.0001	ication ports ommunication ~999.99 V/mS	n ports or the t sec. or A/mSec	ront panel. . Programmin	
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*		 	Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up	es can be con tput power to ies resistance. ile Output rise ion ports or th to 100 steps	nected in Dai o a proggramr . Resistance ra e and Output t ne front panel can be stored	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory o	nchronize the ogramming vi nΩ. Programm Programming cells. Activatio	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RES232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16)		 V	Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up	es can be con tput power to ies resistance. ole Output rise ion ports or th to 100 steps 20 d output volt	nected in Dai o a proggramr Resistance ra e and Output the front panel can be stored 30 age	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory	nchronize the ogramming vi mΩ. Programm Programming cells. Activation	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACT RS232/485, Optional IEEE(*19)(*) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*16)		 V	Power suppli Limits the ou Emulates ser Programmat communicat Profiles of up 10 0.05% of rate 0.1% of actua	es can be con tput power to ies resistance. ele Output rise ion ports or th to 100 steps 20 d output volt il output curre	nected in Dai o a proggramr Resistance ra e and Output l ne front panel can be stored 30 age ent+0.2% of ra	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory o	nchronize the ogramming vi mΩ. Programm Programming cells. Activation	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution		 V	Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rate	es can be con tput power to ies resistance. ele Output rise ion ports or th to 100 steps 20 d output volt el output curre ed output vol	nected in Dai o a proggramr Resistance ra e and Output l ne front panel can be stored 30 age ent+0.2% of ra ltage	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory o	nchronize the ogramming vi mΩ. Programm Programming cells. Activation	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(*. 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution		V	Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	es can be con tput power to ies resistance. ele Output rise ion ports or th to 100 steps 20 d output volt el output volt ed output vol ed output curre ed output cur	nected in Dai o a proggramr Resistance ra e and Output i ne front panel can be stored 30 age ent+0.2% of ra ltage	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory o	nchronize the ogramming vi mΩ. Programm Programming cells. Activation	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE(*19)(* 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution			Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	es can be con tput power to ies resistance. ele Output rise ion ports or th to 100 steps 20 d output volt el output curre ed output vol	nected in Dai o a proggramr Resistance ra e and Output the front panel can be stored 30 age ent+0.2% of ra litage rrent tage	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory o	nchronize the ogramming vi mΩ. Programm Programming cells. Activation	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK 1. Vout programming accuracy (*15) 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy	20) Interfaces)		Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat 0.05% of rate	es can be con tput power to ies resistance. ele Output rise ion ports or th to 100 steps 20 d output volt el output curre ted output vol ed output cure ted output vol ted output cure ted output vol	nected in Dai o a proggramr Resistance ra e and Output the front panel can be stored 30 age ent+0.2% of ra litage rrent tage	sy chain to syr med value. Pro nge: 1~1000r fall slew rate. F in 4 memory o	nchronize the ogramming vi mΩ. Programm Programming cells. Activation	a the commur ning via the co range: 0.0001 on by commar	ication ports ommunication ~999.99 V/mS ad via the com	n ports or the bec. or A/mSec	ront panel. . Programmin orts or by the	front panel.

GENESYS[™] 5kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.5
1.Rated output voltage(*1)		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)		3-Phase,	400V mod		460Vac, 4	7~63Hz (C	overs 380	/230Vac) 0/400/415\ /400/415/4		30Vac)		-	-		
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models:		17.5A @ 2 9.2A @ 38	200Vac 80Vac												
3.Power Factor (Typ)	3-Phase, 480V models:		9.2A @ 38		, rated ou	tnut nowe	ar .									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)		91	91	90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		Α	Less than	50A												
CONSTANT VOLTAGE MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.01% of	rated out	put voltag	je								1		
2.Max. Load regulation (*8)			0.01% of	rated out	put voltag	je +5mV										
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient									es warm-u							
6.Temperature stability									es warm-u			d & temp.				
7. Warm-up drift						`	1	1	utes follo					1		
8.Remote sense compensation/w	vire (*10)	V	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	F. III 1 (#44)	mS c	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11)	mS c	50	50	80	80	80	1000	100	100	100	100	100	150	200	200
l	No load (*12)	mS	300 Time for	600 output vo	800	900 ecover wit	950 hin 0.5% o	1000	1200 d output fo	1900 or a load c	2000 nange 10°	2500 ~90% of ra	3000	4000	Output s	3000 et-point:
11.Transient response time 12.Start up delay		mS Sec	10~100% Less than	, Local se	nse. Less t	han 1mS,	for model	s up to an	d includin	g 100V. 2r	nS, for mo	dels abov	e 100V.	ac current.	. Juipui S	er politi
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			_		put currer		30	00	80	100	130	200	300	400	500	000
2.Max. Line regulation (*7)					put currer											
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz (*14)	mA	≤1200		<u>≤300</u>	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient		PPM/°C	10V~100	V 100PI	PM/°C fro	m rated o	utput curr	ent, follow	wing 30 mir	inutes wa	m-up.					
6.Temperature stability									es warm-u			ıd & temp	erature.			
7. Warm-up drift									ent over 3				n.			
					1411 17 011	570 011410	а оаграг				mg pome					
ANALOG PROGRAMMING AND N	MONITOKING (ISOLATED	FROM I			101/		I - A			0.150/ -6						
1.Vout voltage programming 2.lout voltage programming (*15	-\								earity: +/- earity: +/-							
3.Vout resistor programming))								and linea			d Vout				
4.lout resistor programming (*15	5)								and linea							
5.Output voltage monitor	,				er selectak					,,						
6.Output current monitor (*15)			0~5V or (0~10V, use	er selectak	ole. Accura	acy: +/-0.5	% of rateo	lout.							
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPUT	T)														
1. Power supply OK #1 signal	ATED TROM THE COTT OF		Power su	innly outn	out monito	or Open o	ollector C	Output On	: On. Outp	ut Off: Of	Maximu	m Voltage	· 30V Max	rimum Sin	k Current	10mA
2. CV/CC signal									ff. Maxim						. carrerre	
3. LOCAL/REMOTE Analog contro	ol								l signal or						V or open	1.
4. LOCAL/REMOTE Analog signal									r. Remote:							
5. ENABLE/DISABLE signal									ct. 0~0.6V							
6. INTERLOCK (ILC) control			Enable/D	isable PS	output by	electrica	l signal or	dry conta	ct. Remot	e: 0~0.6V	or short. L	ocal: 2~30	V or oper	١.		
7. Programmed signals									25V, Max							
8. TRIGGER IN / TRIGGER OUT sign	nals		positive	edge tri	gger: tw=	=10us mii	nimum. T	r,Tf=1us l	nigh level Maximun	input vo n, Min de	Itage = 2 lay betwe	.5V, Maxi een 2 pul	imum hig ses 1ms.	gh level ir	nput = 5\	′
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal					ge: 0~0.6V ohm impe			ict.								
FUNCTIONS AND FEATURES																
1. Parallel operation			Possible	Up to twe	lve (12) id	entical un	its in Mast	er/Slave n	node. Refe	r to instru	ction man	nual. For m	ore powe	r please co	onsult wit	h Factory
2. Series operation					tical units						2.1017 man		. 2. C POWC	. prease C		
3. Daisy chain			Power su	ipplies car	n be conne	ected in D	aisy chain	to synchi	ronize thei	ir turn-on	and turn-	off.				
4. Constant power control									mming vi				the front	panel.		
5. Output resistance control									Programn					•	nel.	
6. Slew rate control								rate. Prog	ramming	range: 0.0	001~999.	99 V/mSed	or A/mS	ec. Progra	mming vi	a the
					orts or the			more sall.	s. Activatio	n hu sar-	manduis	tho com	unication	norts or I	ou the free	ot nanal
7. Arbitrary waveforms PROGRAMMING AND READBA	ACK (USB, LAN,	V	10	20	30 steps ca	40	50 In 4 me	60	80	100	150	200	300	400	500	600
RS232/485, Optional IEEE(*19																
1.Vout programming accuracy (*1 2.lout programming accuracy (*1					put voltag out curren		rated out	nut curro	nt							
3.Vout programming accuracy (*)	1.0)				itput volta		rated out	purcuriel	iii.			-				
4.lout programming resolution					itput curre											
5.Vout readback accuracy					tput volta											
6.lout readback accuracy (*15)					ut current											
7.Vout readback resolution (of rate	ted output voltage)	%	0.011%	0.006%			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 rat		%	0.003%	0.005%	0.006%	0.009%	0.011%	0.002%	0.002%	0.003%	0.004%	0.004%	0.006%	0.008%	0.011%	0.002%
	ac content()	,,,	2.303/0	2.000/0	1 2.000/0	1 2.000 //0	10.170	1.002/0	1.002/0	2.20370	2.30 1/0	2.00470		1.000/0	10.170	1002 /0

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

1.0mtrol functions	PROTECTIVE FUNCTIONS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
30-yer Voltage programming arginage V 0.5-12 1-24 2-36 2-461 5-95125 5-6615 5-982 5-1025 5-1025 5-9507 5-461 5-95125 5-6615 5-982 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5-1025 5	1.Foldback protection																
4. Over-verbage programming accuracy 5. July 16 of rated output verbage 5. Output under voltage protection 5. Output under voltage protection 7. Output under voltage protection (UVP) 7. Output under voltage protection (UVP) 8. Output under vo	2.Over-voltage protection (OVP)			Output sh	ut-down.	Reset by	AC input	recycle in a	utostart n	node, by	OUTPUT b	outton, by	rear panel	or by com	municatio	on.	
Soutput under voltage limit (UV)	3.Over -voltage programming range		٧	0.5~12	1~24	2~36	2~44.1	5-55.125	5~66.15	5~88.2	5~110.2	5~165.3	7 5~220.5	5 5~330.75	5~441	5~551.25	5~661.5
Solution contemporature protection	4. Over-voltage programming accura	icy		+/-1% of r	ated outp	ut voltag	e										
7. Output under voltage limit (UV)										n analog į	programn	ning. Prese	t by front	panel or c	ommunica	ation port.	
8. Output under voltage protection (UVP) 8. Prevents adjustment of Your below limit. P. So sutput turns Off during under voltage condition. Reset by AC input recycle in autostant mode, by Power switch, by UTPUT button, by rear panel or by communication. FRONT PANEL 1. Control functions 9. Multiple options with 2 Brucoders 1. Voulthout/Power Limit manual adjust 2. Voulthout/Power Limit manual adjus									rt mode.								
mode, by Power Switch, by OUTPUT button, by rear panel or by communication.	7. Output under voltage limit (UVL)							-									
1.Control functions	8. Output under voltage protection (I	UVP)		Prevents mode, by	adjustmei Power Sw	nt of Vout vitch, by C	below lim UTPUT bu	nit. P.S outp utton, by re	ut turns C ar panel c	off during or by com	under vo municatio	oltage cond on.	dition. Res	et by AC in	put recyc	le in autost	tart
	FRONT PANEL																
OPPUPLY_UVP_manual adjust OPPUPLY_UVP_Foldback, OCL_ENA_ILC	1.Control functions			Multiple	ptions w	ith 2 Enco	ders										
Potestian Functions - OPP, INVLUMP, Floliback, DC, ENALIC Communication interface. Communication options; 4242VDC Imin. Interface classification Communication options; 4242VDC Imin. Interface classification Communication options; 4242VDC Imin. Interface classification Communication options; 4242VDC Imin. Interface Communication options; 4242VDC Imin. Interface Classification Communication options; 4242VDC Imin. Interface Classification Commun				Vout/lout	/Power Li	mit manu	al adjust										
Communication Functions - Selection of LAN,IEEE,RS232,8485,USB or Optional communication interface.																	
Output ON/OFF, Front Panel Lock Communication Functions - Selection of Baud Rate, Address, IP and communication language.																	
Communication Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection of Valage/Current Monitoring 3V/10V, SK/10K programming. Analog Monitor Functions - Selection of Voltage/Current Monitoring 3V/10V. 1001: 4 digits, accuracy 0.2 8% of rated output voltage (-1) cruent Monitoring 3V/10V. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 4 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 5 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 6 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 6 digits, accuracy 0.2 8% of rated output current 4-1 count. 1001: 6 digits, accuracy 0.2 8% of rated output current 4-1 coun								of LAN,IEEE	,RS232,RS	5485,USB	or Option	nal commu	nication i	nterface.			
Analog Control Functions - Selection Voltage/resistive programming_SV/10/S, SK10k programming								(0. 10.									
Analog Monitor Functions - Selection of Voltage/Current Monitoring SV/10V.																	
2.Display Vout. 4 digits, accuracy. 0.05% of rated output voltage +/1 count.												5K/TUK pr	ogrammir	ig			
Second	2 Display										J 3 V/ I U V.		_				-
A. Front Panel Buttons Indications	Z.Dispidy		_														
4. Front Panel Display Indications	3. Front Panel Buttons Indications										N.CONFIG	URATION.	SYSTEM.	SEOUENCE	R.		
1.0 perating temperature	4. Front Panel Display Indications			Voltage, 0	Current, Po	ower, CV,	CC, CP, Ext	ternal Volta	ge, Exterr	nal Currer	nt, Addres					, Remote	
1.0 perating temperature	ENVIRONMENTAL CONDITIONS																
2.Storage temperature				0 F0°C 1	000/ load										,		
3.0 perating humidity	 				00% 10ad.			-									-
4.Storage humidity							,										
S.Altitude (*17) Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1*C/100m above 2000m. Non operating: 40000ft (12000m). MECHANICAL																	
MECHANICAL 1.Cooling				_													
1.Cooling	5.Altitude (*17)			Operating	g: 10000ft	(3000m),	output cu	rrent derati	ng 2%/10	0m or Ta	derating 1	1°C/100m a	above 200	0m. Non o	perating: 4	40000ft (12	2000m).
2. Weight	MECHANICAL																
2. Weight	1.Cooling			Forced ai	cooling b	oy interna	l fans. Air	flow directi	on: from	Front par	nel to pow	er supply	rear				
3.Dimensions (WXHxD) mm W: 423, H: 43.6, D: 441.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 553.2 (Including busbars and busbars cover) (Refer to Outline drawing). 4.Vibration			ka	2.7kW/3.4	kW - Less	than 6.25	ka.			5kW - Le	ess than 7	.5ka.					
SAFETY/EMC 1.Applicable standards: Safety				W: 423, I	H: 43.6, [): 441.5 (Without I	busbars ar busbars a	nd busba and busb	rs cover), er) (Refer	to Outlin	e drawin	g).			
SAFETY/EMC 1.Applicable standards: Safety UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1. 1.1. Interface classification Vout≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, B (sense) & J9 (communication options) are Non Hazardous. 605Vout≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous. Vout≤50V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤10V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, 60V≤Vout≤10V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vout≤60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vout≤60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vout≤60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. 100V≤Vouts60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (co	4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, t	est condition	on Annex	C - 2.1.3.1							
1.1. Interface classification	5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacked									
1.1. Interface classification	CALETALENC	<u> </u>															
1.1. Interface classification		foty		I II 61010	1 (5422.2	No 6101	1 IEC610	110 1 EN610	210.1								
Vout≤50V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V≤Vout≤600V Models: J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (communication options): 4242VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min. Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 1275VDC 1min. Output & J8 (sense) - Ground: 2500VDC 1min. Input - Ground: 2835VDC 1min. 1.3 Insulation resistance				Vout≤50\	Models:	Output, J	, J2, J3, J4	, J5, J6, J7, J	8 (sense) 8	& J9 (com	municatio	on options) are Non	Hazardous	is) are Nor	. Hazardou	ıs
2.Conducted emmision IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A. 3.Radiated emission IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A	1.2 Withstand voltage			Vout≤50' Input - G 60V≤Vou Output & Output & 100V <vo Output & Output &</vo 	/ Models round: 28 t≤100V M J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens	: Input – :35VDC - :0dels: Ir e) - J1, J: e) - Grou Models: e) - J1, J: e) - Grou	Output & Imin. Iput – Ou 2, J3, J4, nd: 1500' Input – Oi 2, J3, J4, nd: 2500'	J8 (sense) tput & J8 (J5, J6, J7 VDC 1min, utput & J8 J5, J6, J7	sense), J & J9 (cor Input - G (sense), & & J9 (cor	J3, J4, J5 1, J2, J3 mmunica Ground: 2 J1, J2, J3	5, J6, J7 , J4, J5, c tion optic 2835VDC 3, J4, J5,	& J9 (com J6, J7 & J9 ons): 850\ 1min. J6, J7 and	munication (communication (communication (document) (document)	on options inication c municatio): 4242VI ptions): 4	DC 1min,	1min,
3.Radiated emission IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A	1.3 Insulation resistance			100Mohn	n at 25°C,	70%RH. C	utput to (Ground 50	0VDC								
3.Radiated emission IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A	2.Conducted emmision									FCC Part	15-A, VCC	I-A.					
				_								,	-				

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

NOTES:

- NOTES:

 * 1: Minimum voltage is guaranteed to maximum 0.1% 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

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

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

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

 * 7: 3-Phase 200V models: 170-265Vac, 3-Phase 400V models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.

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

 * 9: For 10V-150V models: Measured with JETA RC-9131C (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.

 * 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 programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 * 16: Measured at the sensing point.

 * 17: For 10V model is derating 2°C/100m.

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

 * 19 Max. ambient temperature for using IEEE is 40°C.

 * 20 For 10V model only: Max. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.

 * 21: For 10V model only: Nax. output current for using IEEE is 400A up to 40°C and 450A up to 30°C.

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

GENESYS™ 5kW SERIES SPECIFICATIONS 1000-5 - 1500-3.4

OUTPUT RATING		G	1000-5	1500-3.4							
1.Rated output voltage(*1)		V	1000	1500							
2.Rated output current (*2)		Α	5	3.4							
3.Rated output power		W	5000	5000							
INPUT CHARACTERISTICS		V	1000	1500							
			3-Phase, 200V models: 170~265V								
1.Input voltage/freq. 3 phase, 3 w			3-Phase, 480V models: 342~528Vac, 47~63	3Hz (Covers 380/400/415/440/460/480Vac)							
2. Maximum Input current at	3-Phase, 200V models:			200Vac							
100% load	3-Phase, 480V models:			380Vac							
3.Power Factor (Typ)			0.94 @ 200/380Vac,	rated output power. 92							
4.Efficiency (Typ) (*5) (*3) 5.Inrush current (*6)		% A	92 Less th								
CONSTANT VOLTAGE MODE		V	1000	1500							
1.Max. Line regulation (*7)			0.01% of rated	output voltage							
2.Max. Load regulation (*8)			0.01% of rated out	put voltage +5mV							
3.Ripple and noise (p-p, 20MHz) ((*9)	mV	900	900							
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	200	200							
5.Temperature coefficient		PPM/°C	50PPM/°C from rated output voltage	ge, following 30 minutes warm-up.							
6.Temperature stability			0.01% of rated Vout over 8hrs interval following:	30 minutes warm-up. Constant line, load & temp.							
7. Warm-up drift			Less than 0.05% of rated output voltage+:	2mV over 30 minutes following power on.							
8.Remote sense compensation/w	rire (*10)	V	5	5							
9.Up-prog. Response time (*11)		mS	150	150							
,	Full load (*11)	mS	100	100							
10.Down-prog.response time:	No load (*12)	mS	3000	3000							
	1101044 (12)			or a load change 10~90% of rated output current. Output set-point:							
11.Transient response time		mS	10~100%, Local si	ense. 2mS typical.							
12.Start up delay		Sec	Less that	an 5 Sec							
13. Hold up time		mS	5mS typical. Rate	ed output power.							
			, ,								
CONSTANT CURRENT MODE		V	1000	1500							
1.Max. Line regulation (*7)	,		0.05% of rated	-							
2.Max. Load regulation (*13)			0.08% of rated								
3.Ripple r.m.s. @ rated voltage. B.\	W 5Hz~1MHz (*14)	mA	≤7	≤4							
4.Temperature coefficient		PPM/°C	70PPM/°C from rated output curre								
5.Temperature stability			0.01% of rated lout over 8hrs. interval following 30 n								
6. Warm-up drift			Less than +/-0.15% of rated output curre	ent over 30 minutes following power on.							
ANALOG PROGRAMMING AND N	MONITORING (ISOI ATED	FROM T	HE OUTPUT)								
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	1		0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0								
)		· · · · · · · · · · · · · · · · · · ·								
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			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 lout.								
SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPUT	Γ)									
1. Power supply OK #1 signal			Power supply output monitor. Open collector. Output On: On. Output	t Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.							
2. CV/CC signal			CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximus	m Voltage: 30V, Maximum Sink Current: 10mA.							
3. LOCAL/REMOTE Analog control	l		Enable/Disable analog programming control by electrical signal or d								
4. LOCAL/REMOTE Analog signal			Analog programming control monitor signal. Open collector. Remote: 0								
5. ENABLE/DISABLE signal			Enable/Disable PS output by electrical signal or dry contact. 0~0.6V of	· · · · · · · · · · · · · · · · · · ·							
6. INTERLOCK (ILC) control			"Enable/Disable PS output by electrical signal or dry contact. Output								
7. Programmed signals			Two open drain programmable signals. Maximum voltage 25V, Maximum voltag								
8. TRIGGER IN / TRIGGER OUT sign	nals		Maximum low level input voltage = 0.8V, Minimum high level i edge trigger: tw=10us minimum. Tr, Tf=1us Maximum, Min del	ay 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			la ut u company								
1. Parallel operation			Possible. Up to four (4) identical units in Master/Slave mode. Refer to i	nstruction manual. For more power please consult with Factory.							
2. Series operation			Not Possible								
3. Daisy chain	,		Power supplies can be connected in Daisy chain to synchronize their								
4. Constant power control			Limits the output power to a proggrammed value. Programming via								
5. Output resistance control			Emulates series resistance. Resistance range: 1~1000mΩ. Programm	ing via the communication ports or the front panel.							
6. Slew rate control			Programmable Output rise and Output fall slew rate. Programming r	ange: 0.0001~999.99 V/mSec. or A/mSec. Programming via the							
			communication ports or the front panel.								
7. Arbitrary waveforms PROGRAMMING AND READBA	CV (LICE LAN		Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the fron								
RS232/485, Optional IEEE(*19)		V	1000 1500								
1.Vout programming accuracy (*1	6)		0.05% of rated output voltage								
2.lout programming accuracy (*1	5)		0.1% of actual output current-	+0.2% of rated output current							
3.Vout programming resolution			0.002% of rated	output voltage							
4.lout programming resolution			0.003% of rated	· •							
5.Vout readback accuracy			0.1% of rated	·							
6.lout readback accuracy (*15)			0.2% of rated of	· · ·							
7.Vout readback resolution (of rat	red output voltage)	%	0.011%	0.007%							
8.lout readback resolution (of rate		96	0.002%	0.003%							
The state of the s			1 32/0	3.550%							

GENESYS™ 5kW SERIES SPECIFICATIONS 1000-5 - 1500-3.4

PROTECTIVE FUNCTIONS		٧	1000	1500									
1.Foldback protection			Output shut-down when power supply changes mode from CV or Pov presetable. Reset by AC input recycle in AutoStart mode, by Power sw	ver Limit to CC mode or from CC or Power Limit to CV mode. User itch, by OUTPUT button, by rear panel or by communication.									
2.Over-voltage protection (OVP)			Output shut-down. Reset by AC input recycle in autostart mode, by Po	ower Switch, by OUTPUT button, by rear panel or by communication.									
3.Over -voltage programming rang	e	٧	5~1212.75	5~1653.75									
4. Over-voltage programming accu	racy		+/-1% of rated output voltage										
5.Output under voltage limit (UVL)			Prevents from adjusting Vout below limit. Does not apply in analog pr	ogramming. Preset by front panel or communication port.									
6.Over temperature protection			Shuts down the output. Auto recovery by autostart mode.										
7. Output under voltage protection	(UVP)		Prevents adjustment of Vout below limit. P.S output turns Off during u mode, by Power Switch, by OUTPUT button, by rear panel or by comm										
FRONT PANEL													
1.Control functions			Multiple options with 2 Encoders										
			Vout/Iout/Power Limit manual adjust										
			OVP/UVL/UVP manual adjust										
			Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC										
			Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB o	r Optional communication interface.									
			Output ON/OFF. Front Panel Lock.										
			Communication Functions - Selection of Baud Rate, Address, IP and co	ommunication language.									
			Analog Control Functions - Selection Voltage/resistive programming,	5V/10V, 5K/10K programming									
			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5	5V/10V.									
2.Display			Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.										
			lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.										
3. Front Panel Buttons Indications			OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION	,CONFIGURATION, SYSTEM, SEQUENCER.									
4. Front Panel Display Indications			Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), R5/USB/LAN/IEEE communication, Trigger, Load/Store Cell.										
ENVIRONMENTAL CONDITIONS													
1.Operating temperature			0~50°C, 100% load.										
2.Storage temperature			-30~85°C										
3.Operating humidity		%	20~90% RH (no condensation).										
		%											
4.Storage humidity			10~95% RH (no condensation).										
5.Altitude (*17)			Operating: 10000ft (3000m), output current derating 2%/100m or Ta de	erating 1°C/100m above 1500m. Non operating: 40000ft (12000m).									
MECHANICAL													
1.Cooling			Forced air cooling by internal fans. Air flow direction: From front pane	l to power supply 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), cover) Refer to Outline drawing.	W: 423, H: 43.6, D: 598.1 (Including busbars and busbars									
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1										
5.Shock			Less than 20G, half sine, 11mSec. Unit is unpacked.										
SAFETY/EMC													
1. Safety standards:	afety		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.										
1.1. Interface classification	,		Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (commur	nication options) are Non Hazardous.									
1.2 Withstand voltage			Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 and J9 (com J2, J3, J4, J5, J6, J7 and J9 (communication options): 2000VDC Ground: 2835VDC 1min.	municatoin options): 4000VDC 1min, Output & J8 (sense) - J1,									
1.3 Insulation resistance			>100Mohm at 25°C, 70%RH, Output to Ground 500VDC.										
2.EMC standards (*18)			IEC/EN61204-3 Industrial environment.										
2.1. Conducted emmission			IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15	A VCCLA									
				- ' 									
2.2. Radiated emission			IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC	L Part 15-A, VCCI-A									

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

- * 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
 *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 models.
- *4: For Cases where conformance to various sarety standards (UL, IEL, etc...) is required, to be described as 190-240V *5: 3-Phase 200V models: At 200Va cinput voltage, 3-Phase480V: At 380Vac input voltage. With rated output power. *6: Not including EMI filter inrush current, less than 0.2mSec. *7: 3-Phase 200V models: 170-265Vac, 3-Phase 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: Measured with 100:1 probe.

- * 9: 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: The ripple is measured at 10~100% of rated output voltage and rated output current. B.W 5Hz~1MHz.
 * 15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 * 16: Measured at the sensing point.
 * 17: Max. ambient temperature for using 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™ 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
1.Rated output voltage(*1)	V	20	30	40	60	80	100-73	150	200-37.3	300	600	1000-7.5	1500-5
2.Rated output current (*2)	A	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
3.Rated output current (2)	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
INPUT CHARACTERISTICS	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)			00V models:										
			80V models:	342~528Va	ıc, 47~63Hz	(Covers 380	0/400/415/4	40/460/480	Vac).				
2.Maximum Input current at 3-Phase, 200V models:		25.5A @ 20											
100% load 3-Phase, 480V models:		13.5A @ 38	0Vac.										
3.Power Factor (Typ.)		0.94 @ 200/	380Vac, rat	ed output p	ower.								
4.Efficiency (Typ.) (*5) (*3)	%	91	91	91	91	91	91	91	91	91	92	92	92
5.Inrush current (*6)	A	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)			ted output										
2.Max. Load regulation (*8)			ted output		nV								
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	80	80	80	90	90	150	250	150	450	1100	1300
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	10	8	12	15	15	20	45	60	100	250	500
5.Temperature coefficient			rom rated o							- 00	100	250	500
6.Temperature stability									line, load &	temperati	ire		
7.Warm-up drift			.05% of rate							temperate			
8.Remote sense compensation/wire (*10)	V	2	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. response time (*11)	mS	30	30	30	50	50	50	50	50	50	100	150	200
Full load (*11)	mS	50	80	80	80	100	100	100	100	100	100	100	100
10.Down-prog. response time	ms												
No load (*12)	1	600	500	1000	1000	1000	1500	2500	2000	3000	3000	3000	3000
11.Transient response time		Output set	itput voltag point: 10~1 mS for mod	00%, Local	sense.				nge 10~909 ′.	∞ oi rated d	output curre	nit.	
12.Start up delay		Less than 5											
13.Hold-up time		5mS Typica	I. Rated out	put power.									
						00	100	150	200	200	600	1000	1500
CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ted output ted output										
2.Max. Load regulation (*13)	_				.150	.100	-70	.45	-20	.45	-3.4	.10	
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	≤500	≤300	≤150	≤100	≤70	≤45	≤20	≤15	≤14	≤10	≤5
4.Temperature coefficient	PPM/°C		models: 100 V models: 7			-			s warm-up. es warm-up.				
5.Temperature stability		0.01% of ra	ted lout ove	r 8hrs. inter	rval followir	ng 30 minut	tes warm-u	o. Constant	line, load &	temperatu	re.		
CW 1:6		20V~100V r	nodels: Les	s than +/-0.2	25% of rate	d output cu	rrent over 3	0 minutes f	ollowing po	wer on.			
6.Warm-up drift		150V~1500	V models: L	ess than +/-	0.15% of rat	ed output	current ove	r 30 minute	s following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED						115		150/ 6 .	117 .				
1.Vout voltage programming			~5V or 0~10										
2.lout voltage programming (*15)	_	0~100%, 0											
3.Vout resistor programming									rated Vout				
4.lout resistor programming (*15)		0~100%, 0						: +/-0.5% of	rated lout.				
5.Output voltage monitor			10V, user se										
6.Output current monitor (*15)		0~5V or 0~	10V, user se	lectable. Ac	curacy: +/-	0.5% of rate	d lout.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)												
1.Power supply OK #1 signal		Power supp	olv output n	nonitor. Op	en collecto	. Output Oi	n: On. Outp	ut Off: Off. N	Maximum Vo	oltage: 30V.	. Maximum :	Sink Current	: 10mA.
2.CV/CC signal									30V. Maxim				
3.LOCAL/REMOTE Analog control												·30V or ope	n
4.LOCAL/REMOTE Analog signal												um Sink Curi	
5.ENABLE/DISABLE signal									30V or oper				101117
6.INTERLOCK (ILC) control									or short. O				
7.Programmed signals									urrent 100n				
	1	-	ow level ing							.,	.,		
8.TRIGGER IN / TRIGGER OUT signals		Maximum l Min delay b	nigh level in etween 2 p	put = 5V po ulses 1ms.	ositive edge	trigger: tw	= 10us min	imum. Tr,Tf	= 1us maxir	num.			
9.DAISY_IN/SO control signal			al Voltage: 0			ntact.							
10.DAISY_OUT/PS_OK #2 signal		$4 \sim 5V = OK$	0V (500Ω ir	npedance)	= Fail.								
FUNCTIONS AND FEATURES													
1. Parallel operation	T	Possible II	p to 4 identi	cal units is	Mactor/Cla	e mode D	for to inst	iction man	ıal				
-			p to 4 identi vo identical					iction mant	adi.				
2. Series operation								rturn on	dturn off				
3. Daisy chain	1		olies can be							to outle - 1	nt nn1		
A Constant nouse control		Limits the o	output pow	er to a prod	rammed va	iue. Prograi		ne commu	nication por		ont panel.		
4. Constant power control		F 1.				1 1000 0	D.						
5. Output resistance control		Programma	eries resista	nce. Resista	utput fall sle	w rate.	. Programm	ing via com	munication	ports or fro	ont panel.		
5. Output resistance control 6. Slew rate control	_	Programm Programmi Programmi	able Output ing range: 0 ing via com	nce. Resista rise and Ou .0001~999.9 munication	utput fall sle 99 V/mS. or ports or fro	ew rate. A/mS. nt panel.		ing via com	munication	ports or fro	ont panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		Programmi Programmi Programmi Profiles of u	able Output ing range: 0	nce. Resista rise and Ou .0001~999.9 munication eps can be s	utput fall sle 99 V/mS. or ports or fro stored in 4 r	ew rate. A/mS. int panel. nemory cel	ls.	ing via com	munication	ports or fro	ont panel.		
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. R5232/485, Optional (*17) (*20) Interfaces)	 V	Programma Programmi Programmi Profiles of u Activation	able Output ing range: 0 ing via com up to 100 sto by comman	nce. Resista rise and Ou .0001~999. munication eps can be s d via comm	utput fall sle 99 V/mS. or ports or fro stored in 4 r	ew rate. A/mS. int panel. nemory cel	ls.	ing via com	munication	ports or fro	ont panel.	1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN, RS232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Programmi Programmi Profiles of u Activation	able Output ing range: 0 ing via comi up to 100 sto by comman 30 ted output	nce. Resista rise and Ou .0001~999.9 munication eps can be s d via comm 40 voltage.	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. Int panel. nemory cel oorts or fror	ls. nt panel.					1000	1500
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 accuracy (*15)	 V	Programmi Programmi Profiles of a Activation 20 0.05% of ra 0.1% of acti	able Output ing range: 0 ing via com up to 100 ste by comman 30 ted output ual output c	nce. Resista r rise and Ou .0001~999.9 munication eps can be s d via comm 40 voltage. uurrent +0.2	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. Int panel. nemory cel oorts or fror	ls. nt panel.					1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. RS232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. lout programming accuracy (*15) 3. Vout programming resolution	V	Programm Programmi Profiles of Activation 20 0.05% of ra 0.1% of acti	able Output ing range: 0 ing via com up to 100 ste by comman 30 ted output ual output c	nce. Resista rise and Ou .0001~999. munication eps can be s d via comm 40 voltage. urrent +0.2 t voltage.	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. Int panel. nemory cel oorts or fror	ls. nt panel.					1000	1500
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional (*17) (*20) Interfaces) 1.Vout programming accuracy (*16) 2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution	V	Programm Programmi Profiles of a Activation 20 0.05% of ra 0.1% of act 0.002% of r	able Outputing range: 0 ing via comiup to 100 sto by comman 30 ted output ual output cated outpur ated outpur ated outpur ated outpur	nce. Resista rise and Ou .0001~999.9 munication eps can be s d via comm 40 voltage. urrent +0.2 t voltage. t current.	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. Int panel. nemory cel oorts or fror	ls. nt panel.					1000	1500
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 5. Vout readback accuracy	V	Programm Programmi Profiles of a Activation 20 0.05% of ra 0.1% of act 0.002% of r 0.002% of r	able Outputing range: 0 ing via comiup to 100 sto by comman 30 ted output ual output cated output ated output ted output	nce. Resista rise and Ou .0001~999.9 munication pps can be s d via comm 40 voltage. turrent +0.2 t voltage. t current. voltage.	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. Int panel. nemory cel oorts or fror	ls. nt panel.					1000	1500
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 5. Vout readback accuracy 6. lout readback accuracy 6	V	Programm Programmi Profiles of a Activation 20 0.05% of ra 0.1% of activation 0.002% of ra 0.002% of ra 0.2% of ration	able Outputing range: 0 ing via comi up to 100 ste by comman 30 ted output ual output o ated output ated output ed output ed output	nce. Resista rise and Ou .0001~999.1 munication eps can be s d via comm 40 voltage. urrent +0.2 t voltage. t current. voltage.	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. nt panel. nemory cel sorts or fror 80 output curr	ls. nt panel. 100 ent.	150	200	300	600		
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 accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	V	Programm Programmi Profiles of a Activation 20 0.05% of ra 0.1% of act 0.002% of r 0.002% of r	able Outputing range: 0 ing via comiup to 100 sto by comman 30 ted output ual output cated output ated output ted output	nce. Resista rise and Ou .0001~999.9 munication pps can be s d via comm 40 voltage. turrent +0.2 t voltage. t current. voltage.	utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	ew rate. A/mS. Int panel. nemory cel oorts or fror	ls. nt panel.					0.011% 0.002%	0.007% 0.003%

GENESYS™ 7.5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Foldback protection			Output shut Reset by AC	-down wher input recycl	n power supp e in autostar	oly changes i t mode, by P	mode from (ower Switch	CV or Power I , by OUTPUT	imit to CC m	ode or from ear panel or	CC or Power by communi	Limit to CV i	mode. User p	resetable.
2.Over-voltage protection (OVP)			Output shut	-down. Rese	t by AC inpu	it recycle in a								
3. Over-voltage programming rang	e	V	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~661.5	5~1212.75	5~1653.75
4. Over-voltage programming accu	racy		+/-1% of rate	ed output vo	ltage.									
5.Output under voltage limit (UVL)			Prevents fro	m adjusting	Vout below	limit. Does r	not apply in	analog prog	ramming. Pr	eset by front	panel or cor	mmunicatio	n port.	
6.Over temperature protection			Shuts down	the output.	Auto recove	ry by autost	art mode.							
7. Output under voltage protection	(UVP)		Prevents ad Reset by AC	justment of input recycl	Vout below l e in autostar	imit. P.S out t mode, by f	put turns Of Power Switc	f during und h, by OUTPU	er voltage co T button, by	ondition. rear panel o	r by commu	nication.		
FRONT PANEL														
1.Control functions			Multiple opt											
					nanual adjus	t								
			OVP/UVL/U											
					VP, UVL,UVP									
			Communica	tion Functio	ns - Selectio	n of LAN,IEE	E,RS232,RS4	185,USB or O	ptional com	munication i	nterface.			
			Output ON/											
					ns - Selectio									
			Analog Con	trol Function	ns - Selection	Voltage/res	sistive progr	amming, 5V	/10V, 5K/10K	programmir	ng			
					ns - Selectio				10V.					
2.Display			Vout: 4 digit	s, accuracy:	0.05% of rate	ed output vo	oltage +/-1 c	ount.						
			lout: 4 digits	, accuracy: (0.2% of rated	output curr	ent +/-1 cou	ınt.						
3.Front Panel Buttons Indications			OUTPUT ON	, ALARM, PR	EVIEW, FINE,	COMMUNIC	CATION, PRO	TECTION,CC	NFIGURATIO	ON, SYSTEM,	SEQUENCER	l.		
4. Front Panel Display Indications			Voltage, Cur RS/USB/LAN	rent, Power, I/IEEE comm	CV, CC, CP, E unication, Ti	xternal Volt rigger, Load	age, Externa /Store Cell.	al Current, Ad	ddress, LFP, <i>F</i>	lutostart, Sai	etstart, Fold	lback V/I, Rei	mote (comm	unication),
ENVIRONMENTAL CONDITIONS														
1.Operating temperature			0~50°C, 100	% load.										
2.Storage temperature			-30~85°C			•								
3.Operating humidity		%	20~90% RH	(no conden	sation)									
· · · ·		%												
4.Storage humidity			10~95% RH											
5.Altitude (*17)			Operating: 1	0000ft (300	0m), output	current dera	ting 2%/100	m or Ta dera	ting 1°C/100	m above 200	0m. Non ope	erating: 4000	00ft (12000m	1).
MECHANICAL														
1.Cooling			Forced air co	ooling by int	ernal fans. A	irflow direct	tion: From fr	ont panel to	power supp	ly rear.				
2.Weight		kg	Less than 8.5	5Kg.										
3.Dimensions (WxHxD)		mm	W: 423, H: 43 W: 423, H: 43	3.6, D: 486.5 3.6, D: 598.1	(Without bu (Including bi	sbars and buusbars and b	usbars cover), r). Refer to O	utline drawi	ng.				
4.Vibration			MIL-810G, m											
5.Shock			-		11mS. Unit is									
			LC33 triail 20	o, nan sine,	Timb. Office	anpackeu.								
SAFETY/EMC														
1. Applicable standards:	Safety		UL61010-1, 0	SA22.2 No.	51010-1, IEC6	1010-1, EN6	1010-1.							
1.1. Interface classification			Vout≤50V M	odels: Outp	ut, J1, J2, J3,	J4, J5, J6, J7,	J8 (sense) &	J9 (commun	ication option	ons) are Non	Hazardous.			
i.i. interrace classification			60≤Vout≤15	00V Models	: Output & J8	3 (sense) are	hazardous,	J1, J2, J3, J4, .	J5, J6, J7 & J9	(communic	ation option	s) are Non H	azardous.	
				lodels: Input	- Output &									
			60V≤Vout≤1	00V Models (sense) - J1,	: Input – Out J2, J3, J4, J5,	put & J8 (sei J6, J7 & J9 (c	nse), J1, J2, J ommunicati	3, J4, J5, J6, J ion options):	7 & J9 (comn 850VDC 1mi	nunication o in, Output &	otions): 4242 J8 (sense) - G	VDC 1min, Ground: 1500	VDC 1min,	
1.2 Withstand voltage			100V <vout≤ Output & J8 Input - Grou</vout≤ 	(sense) - J1,	ls: Input – Ou J2, J3, J4, J5, C 1min.	utput & J8 (s J6, J7 & J9 (c	ense), J1, J2, ommunicati	J3, J4, J5, J6, on options):	J7 and J9 (co 1275VDC 1n	mmunicationin, Output &	n options): 4 2 J8 (sense) -	1242VDC 1mi Ground: 250	in, IOVDC 1min.	
			1000V <vout Output & J8 Input - Grou</vout 	(sense) - J1,	dels: Input – J2, J3, J4, J5, C 1min.	Output & J8 J6, J7 & J9 (c	(sense), J1, J ommunicati	2, J3, J4, J5, J on options):	6, J7 and J9 2000VDC 1n	(communica nin, Output &	tion options; & J8 (sense) -): 4000VDC 1 Ground: 328	min, 30VDC 1min.	
1.3.Isolation resistance			100Mohm a	t 25°C, 70%F	RH. Output to	Ground 50	00VDC							
2.EMC standards (*18)			IEC/EN61204					CC Part 15-A	VCCI-A					
2.1.Conducted emission					l environme					1-A				
2.2.Radiated emission			IEC/EN61204				CONCINU OI	, I CC F	15 M, VCC	/1				
z.z.nauiateu eiiiissioii			JILC/LINU1204	T-5 IIIuusliid	ii erivii orillie	iii.								

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

NOTES:

**: Coming soon

- *1: Minimum voltage is guaranteed to maximum 0.15% of rated output voltage for 20V and 30V / 0.1% of rated output voltage for 40V and 1500V
 *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
 *3 Typ. at Ta=25°C, rated output power.
 *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 200V models.
 and 380~480Vac (50/60Hz) for 3-Phase 480V models.
 *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
 *6: Not including EMI filter inrush current, less than 0.2mS.
 *7: 3-Phase 200V models: T70~265Vac, 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 20V~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: The ripple is measured at 10~100% of rated output voltage and rated output current. B.W SHz~1MHz.
 *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[™] **GSP10kW SERIES SPECIFICATIONS**

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-17
1.Rated output voltage(*1)		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		Α	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17
3.Rated output power		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
						65Vac, 47										
1.Input voltage/freq. 3 phase, 3 w	vire + Ground (*4)					160Vac, 47					-11					
	2 Dh 2001/				lels: 342~5	28Vac, 47	~63Hz (Co	vers 380/4	400/415/4	40/460/480	OVac)					
2. Maximum Input current at	3-Phase, 200V models: 3-Phase, 400V models:		35A @ 20 18.4A @ 3													
100% load	3-Phase, 480V models:		18.4A @ 3													
3.Power Factor (Typ)	5 Thuse, 400 Vinoueis.				. rated out	put powe	r.									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	0.94 @ 200/380Vac, rated output power. 89 (*21) 90 91 91 91 91 91 91 91 91 91 92 92 91 92												92
5.Inrush current (*6)		Α	Less than	100A												
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	ated outp	out voltag	e						•				•
2.Max. Load regulation (*8)			0.01% of	ated outp	out voltag	e +5mV										
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C				voltage, fo										
6.Temperature stability										. Constant		d & temp.				
7. Warm-up drift	(ire (*10)	 V								ving powe		E	E	_ E	-	
8.Remote sense compensation/w 9.Up-prog. Response time (*11)	/iie (* IU)	mS	30	30	5 30	5 30	5 50	50	5 50	5 50	5 50	50	5 50	100	5 100	5 100
	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11 Transient response time			Time for	output vo	ltage to re	cover with	hin 0.5% o	f its rated	output fo	r a load ch	ange 10~9	90% of rat	ed output			
11.Transient response time		mS	10~100%	, Local ser	nse. Less tl	nan 1mS, f	or models	up to and	lincluding	100V. 2m	S, for mod	dels above	100V.			
12.Start up delay		Sec	Less than	7 Sec]
CONSTANT CURRENT MODE																
1.Max. Line regulation (*7)			0.05% of	rated outp	out curren	t.										
2.Max. Load regulation (*13)			0.08% of	rated out	out curren	t.										
3.Ripple r.m.s. @ 10% rated voltag	ge. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage	e. B.W 5Hz~1MHz. (TA25°C)	mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5.Temperature coefficient		PPM/°C	10V~100\							nutes warn						
										utes warm						
6.Temperature stability										. Constant						
7. Warm-up drift					ess tnan +	·/-U.25% 0	t rated ou	tput curre	nt over 30	minutes fo	ollowina i	power on.				
				W. Loce th	an 1/015	04 of rator	doutput	urrent ove	r 20 minu	tor followi						
					an +/-0.15	6% of rated	d output c	urrent ove	er 30 minu	tes followi						
ANALOG PROGRAMMING AND M	MONITORING (ISOLATED		HE OUTP	JT)							ng power					
ANALOG PROGRAMMING AND N 1.Vout voltage programming			HE OUTPU 0~100%,	JT) 0~5V or 0	~10V, user	selectable	e. Accurac	y and line	arity: +/-0	.15% of rat	ng power					
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15			0~100%, 0~100%,	JT) 0~5V or 0 0~5V or 0	~10V, user ~10V, user	selectable	e. Accurac e. Accurac	y and line y and line	arity: +/-0	.15% of rat .4% of rate	ng power ed Vout.	ron.				
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming	5)		0~100%, 0~100%, 0~100%,	JT) 0~5V or 0 0~5V or 0 0~5/10Ko	~10V, user ~10V, user hm full sca	selectable selectable ale, user se	e. Accurad e. Accurad electable.	y and line y and line Accuracy	earity: +/-0 earity: +/-0 and linear	.15% of rat .4% of rate ity: +/-0.59	ng power red Vout. red lout. 6 of rated	ron.				
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15	5)	 	0~100%, 0~100%, 0~100%, 0~100%,	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko	~10V, user ~10V, user hm full sca	selectable selectable ale, user se ale, user se	e. Accurad e. Accurad electable. electable.	y and line y and line Accuracy Accuracy	earity: +/-0 earity: +/-0 and linear and linear	.15% of rat .4% of rate	ng power red Vout. red lout. 6 of rated	ron.				
ANALOG PROGRAMMING AND A 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor	5)	 	HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko	~10V, user ~10V, user hm full sca hm full sca r selectab	selectable selectable ale, user se ale, user se le. Accurae	e. Accurade. Accurade lectable. electable. cy: +/-0.5	y and line y and line Accuracy Accuracy %. Of rated	earity: +/-0 earity: +/-0 and linear and linear I Vout.	.15% of rat .4% of rate ity: +/-0.59	ng power red Vout. red lout. 6 of rated	ron.				
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 	HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko	~10V, user ~10V, user hm full sca hm full sca r selectab	selectable selectable ale, user se ale, user se	e. Accurade. Accurade lectable. electable. cy: +/-0.5	y and line y and line Accuracy Accuracy %. Of rateo	earity: +/-0 earity: +/-0 and linear and linear I Vout.	.15% of rat .4% of rate ity: +/-0.59	ng power red Vout. red lout. 6 of rated	ron.				
ANALOG PROGRAMMING AND A 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA	5)	 	HE OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use	~10V, user ~10V, user hm full sca hm full sca r selectab r selectab	selectable selectable ale, user se ale, user se le. Accurae le. Accurae	e. Accurac e. Accurac electable. electable. cy: +/-0.5° cy: +/-0.5°	ey and line ey and line Accuracy Accuracy %. Of rateo %. Of rateo	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout.	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59	ng power ed Vout. ed lout. % of rated % of rated	Vout.		Cial		
ANALOG PROGRAMMING AND A 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	5)	 	HE OUTPI 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0	0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 1~10V, use 1~10V, use	~10V, user ~10V, user hm full sco hm full sco r selectab r selectab ut monito	selectable selectable ale, user se ale, user se le. Accurae le. Accurae	e. Accurace. Accurace e. Accurace electable. electable. cy: +/-0.5° cy: +/-0.5° ollector. O	y and line y and line Accuracy Accuracy %. Of rateo %. Of rateo	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout. On. Outpu	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59	ng power eed Vout. ed lout. % of rated % of rated	Vout.	30V, Maxi		Current: 1	0mA.
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	S) ATED FROM THE OUTPUT	 	D=000000000000000000000000000000000000	0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 1~10V, use ~10V, use	~10V, user ~10V, user hm full sca hm full sca r selectab r selectab ut monito en collect	selectable selectable ale, user se ale, user se le. Accurae le. Accurae r. Open co or. CC moc	e. Accurace. Accurace. Accurace electable. electable. cy: +/-0.5cy: +/-0.5cy	ey and line ey and line Accuracy Accuracy 6. Of ratec 6. Of ratec utput On: mode: Of	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout. On. Outpu	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59 ut Off: Off. m Voltage	ng power sed Vout. ed lout. % of rated % of rated Maximum:	r on. I Vout. I lout. n Voltage:	30V, Maxi k Current:	10mA.		0mA.
ANALOG PROGRAMMING AND A 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal	S) ATED FROM THE OUTPUT	 T)	## OUTPU 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or C 0~5V or C	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 10V, use 10V, use pply outponitor. Opiisable ana	~10V, user ~10V, user hm full sc: hm full sc: r selectab r selectab ut monito en collect	selectable selectable ale, user se ale, user se le. Accurae le. Accurae r. Open co or. CC mod amming c	e. Accurace e. Accurace electable. electable. cy: +/-0.5 ^c cy: +/-0.5 ^c cy: -/-0.5 ^c billector. O de: On. CV	y and line y and line Accuracy Accuracy %. Of rateo %. Of rateo utput On: mode: Of electrical	arity: +/-0 arity: +/-0 and linear and linear d Vout. d lout. On. Outpu f. Maximu signal or co	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59	ng power sed Vout. ed lout. % of rated % of rated Maximum: 30V, Max Remote:	r on. I Vout. I lout. n Voltage: kimum Sin! : 0~0.6V ol	30V, Maxi k Current:	10mA. cal: 2~30V	or open.	
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	S) ATED FROM THE OUTPUT	 	HE OUTP(0~100%, 0~100%, 0~100%, 0~100%, 0~5V or C Power su CV/CC Me Enable/D analog pi	JT) 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use pply outp pnitor. Opi isable ana ogrammin	~10V, user ~10V, user hm full sc: r selectab r selectab ut monito en collect alog progr ng control	selectabla selectabla ale, user se ale, user se le. Accura le. Accura r. Open co or. CC moc amming c monitor si	e. Accurace e. Accurace e. Accurace e. Accurace e. Control by cy: +/-0.50 cy: +/-0.50 cy: +/-0.50 cy: -/-0.50 cy:	cy and line cy and line Accuracy 6. Of rateo 6. Of rateo utput On: mode: Of electrical: n collecto	earity: +/-0 earity: +/-0 and linear and linear d Vout. d lout. On. Outpu f. Maximu signal or or r. Remote:	.15% of rate .4% of rate ity: +/-0.5% ity: +/-0.5% ut Off: Off. m Voltage lry contact	ed Vout. d lout. of rated of rated Maximum: 30V, Max Remote:	r on. I Vout. I lout. n Voltage: kimum Sinl : 0~0.6V oi mum Volta	30V, Maxi k Current: r short. Lo gge: 30V, M	10mA. cal: 2~30V laximum S	or open.	
ANALOG PROGRAMMING AND A 1.Vout voltage programming (*15 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	S) ATED FROM THE OUTPUT	 	HE OUTPI 0~100%, 0~100%, 0~100%, 0~5V or 0 Power su CV/CC Me Enable/D analog pi Enable/D Enable/D Enable/D	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 10V, use 10V, use pply outp pnitor. Op- isable ana- ogrammir isable PS o isable PS o	~10V, user ~10V, user ~10V, user hm full sc. r selectab r selectab ut monito en collect alog progr ng control output by output by	selectable selectable selectable ale, user se le. Accura- le. Accura- r. Open co or. CC mod amming c monitor si electrical	e. Accurace e. Accurace e. Accurace electable. electable. cy: +/-0.5 cy: +/-0	cy and line cy and line Accuracy Accuracy %. Of rateo %. Of rateo utput On: mode: Of electrical : n collecto dry contac	arity: +/-0 arity: +/-0 and linear and linear d Vout. d lout. On. Output f. Maximu signal or c r. Remote: tt. 0~0.6V tt. Remote	.15% of rate .4% of rate ity: +/-0.59 ity: +/-0.59 ut Off: Off. m Voltage lry contact On. Local: or short, 2- : 0~0.6V of	mg power ded Vout. ded lout. for of rated f	n Voltage: kimum Sini: 0~0.6V or mum Voltage. pen. User: pocal: 2~30V	30V, Maxi k Current: r short. Lo ige: 30V, M selectable / or open.	10mA. cal: 2~30V laximum S logic.	or open.	
ANALOG PROGRAMMING AND A 1.Vout voltage programming 1.Vout voltage programming 4.lout 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 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	S) ATED FROM THE OUTPUT	 T)	HE OUTPU 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 Enable/D analog pt Enable/D Two open	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 10V, use 10V, use pply outp pnitor. Op- isable ana ogrammir isable PS of drain profile of dr	~10V, user ~10V, user ~10V, user hm full sc. r selectab r selectab ut monito en collect alog progr ng control output by output by	selectable selectable selectable ale, user se le. Accura- le. Accura- r. Open co or. CC mod amming c monitor si electrical electrical	e. Accurace e. Accurace e. Accurace electable. electable. cy: +/-0.5 cy: +/-0	cy and line cy and line Accuracy Accuracy %. Of rateo %. Of rateo utput On: mode: Of electrical in collecto dry contac dry contace	arity: +/-0 arity: +/-0 and linear and linear d Vout. d lout. On. Output f. Maximu signal or c r. Remote: tt. 0~0.6V tt. Remote 25V, Maxi	at Off: Off. Ty contact at Off: Off. Ty contact On. Local: or short, 2: : 0~0.6V or mun sink of	Maximum: 30V, Max. Remote: Off. Maximum: ~30V or oprishort. Locurrent 10ccurrent 10ccurr	n Voltage: kimum Sini: 0 ~ 0.6V or mum Voltage bocal: 2 ~ 30V 00mA (Shu	30V, Maxi k Current: r short. Lo age: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	or open. ink Currer	nt: 10mA.
ANALOG PROGRAMMING AND M ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output voltage monitor (*15) SIGNALS AND CONTROLS (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	S) ATED FROM THE OUTPUT		HE OUTPI 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or 0 0~5V or 0 CV/CC Me Enable/D analog pi Enable/D Two opei Maximu	JT) 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko ~10V, use ~10V, use pply outponitor. Opisable ana ogrammir isable PS of drain pro	~10V, user ~10V, user ~10V, user hm full sc. hm full sc. r selectab r selectab ut monito en collect alog progr ng control output by output by ogrammak vel input	selectable selectable selectable selectable selectable selectable selectable selectrical selectrical selectrical selectrical selectrical selectrical selectrical selectrical	e. Accurace e. Accurace e. Accurace electable. electable. cy: +/-0.5° cy: +/-0.5° cy: +/-0.5° de: On. CV ontrol by ignal. Ope signal or of . Maximuu = 0.8V,Mii = 0.8V,Mii	ey and line ey and line Accuracy Accuracy 6. Of rateo 6. Of rateo 6. Utput On: mode: Of electrical 7. n collecto dry contac 6. n voltage 6. n voltage 6. n voltage 6. n mum h	arity: +/-0 and linear and linear d Vout. d lout. On. Output f. Maximu signal or c r. Remote: tt. 0~0.6V tt. Remote 25V, Maxi igh level	at Off: Off. To Contact To C	mg power ded Vout. ded lout. Gof rated Gof rated Maximum 30V, Max Remote: Off. Maxir 30V or op r short. Lo	n Voltage: kimum Sini: 0~0.6V or mum Volta pen. User s 2~30V 00mA (Shu 55V, Maxim	30V, Maxi k Current: r short. Lo age: 30V, M selectable / or open. inted by 2	10mA. cal: 2~30V laximum S logic. 7V zener)	or open. ink Currer	nt: 10mA.
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ANALOG PROGRAMMING AND M. ANALOG PROGRAMMING AND M. I.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output voltage monitor (*15) I.Fower supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACI RS232/485, Optional IEEE (*19)(*1) 1.Vout programming accuracy (*1 3.Vout programming resolution 5.Vout readback accuracy	K (USB, LAN, *20) Interfaces) Ided output voltage)		HE OUTPI 0~100%, 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or C 0~5V or C 0~5V or C 10~5V or C Power su CV/CC Me Enable/D analog pp Enable/D Two oper Maximu edge tri By electri 4~5V=0P Possible. Consult v Power su Limits the Enome su Limits the Program commun Profiles o 0.05% of 0.3% of r 0.002% o	075) 0~5V or 0 0~5V or 0 0~5V or 0 0~5/10Ko 0~5/10Ko 0~5/10Ko 10V, use 10V,	~10V, user ~10V, user ~10V, user hm full sc. hm full sc. r selectab r selecta	selectable selectable selectrons ale, user selectable ale, user selectable selectrons selectrons selectrons selectrons selectrical electrical electrical electrical electrical selectrical selectrical selectrical selectrical electrical el	e. Accurace control by ignal On CV control by ignal or o signal or	cy and line cy and line Accuracy Accuracy 6. Of ratec	arity: +/-0 arity: +/-0 arity: +/-0 and linear d Vout. d lout. On. Output. f. Maximu signal or cr. r. Remote: ct. 0~0.6V tt. Remote 25V, Maxi igh level h, Min del cr. Delase cc. conize their mming via programm amming r Activation	at Off: Off. To Work of the W	mg power led Vout. dout. for a ted for a	n Voltage: kimum Sini c 0~0.6V or mum Volta gen. User s 2~30V 00mA (Shu SSV, Maxim ses 1ms.	30V, Maxii k Current: r short. Lo ige: 30V, M selectable / or open. inted by 2 mum high the front ports or the or A/mSe inication grant and a selection gr	10mA. cal: 2~30V laximum S logic. 7V zener) h level inp panel. front pane. c. Program ports or by 400	or open. ink Currer out = 5V p el. ming via the front 500 0.003%	the panel.

GENESYS[™] **GSP15kW SERIES SPECIFICATIONS**

OUTPUT RATING	GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5
1.Rated output voltage(*1)	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)	Α	1500 (*3)	750	510	375	300	255	195	150	102	75	51	39	30	25.5
3.Rated output power	kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15	15.3
INPUT CHARACTERISTICS	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
		3-Phase, 2													
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 4													
2.81 2007 1.1		3-Phase, 4		els: 342~5	28Vac, 47~	-63Hz (Co	vers 380/4	100/415/44	10/460/48	(BOVac					
2. Maximum Input current at 3-Phase, 200V models: 3-Phase, 400V models:		52.5A @ 20 27.6A @ 38													
100% load 3-Phase, 480V models:	1	27.6A @ 38													-
3.Power Factor (Typ)		0.94 @ 200		rated out	out 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)	Α	Less than	150A												
6.AC line phase imbalance	%	< 5%													
CONSTANT VOLTAGE MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.01% of ra	ated outp	ut voltage									1		
2.Max. Load regulation (*8)		0.01% of ra	ated outp	ut voltage	+5mV										
3.Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient	PPM/°C	50PPM/°C	from rate	d output v	voltage, fo	llowing 3	0 minutes	warm-up).						
6.Temperature stability		0.01% of ra	ated Vout	over 8hrs	interval fo	ollowing 3	0 minutes	s warm-up	. Constan	nt line, loa	d & temp.				
7. Warm-up drift		Less than	0.05% of r	ated outp	ut voltage	+2mV ove	er 30 minu	utes follow	ing powe	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-prog.response time: Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time	mS	10~100%,											it current.	Output se	et-point:
12Start up delay	Sec	Less than 7		(11			_p to unu	c.aamig	,	,					
. ,				2.0	1.0				100	4=0	200	200	400	F	
CONSTANT CURRENT MODE	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)		0.05% of ra													
2.Max. Load regulation (*13)		0.08% of ra		T		250	100	100	70	45	45	15	15	12	10
3.Ripple r.m.s. @ 10% rated voltage B.W 5Hz~1MHz. (*14)	mA mA	2000	1200 700	600 300	300 150	250 130	180 90	100	70 35	45 23	45 23	15 7.5	7.5	12 8	10
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA 25°C)	mA	1200 10V~100V		M/°C from							23	7.5	/.5	8	0
5.Temperature coefficient	PPM/°C	150V~600													
6.Temperature stability		0.01% of ra									d & temne	rature			
		10V~100V													
7. Warm-up drift		150V~600													
ANALOG PROGRAMMING AND MONITORING (IGOLATE										31					
ANALOG PROGRAMMING AND MONITORING (ISOLATEI				101/	1 . 11		110		150/ 6	. 11/					
1.Vout voltage programming		0~100%, 0													
2.lout voltage programming (*15) 3.Vout resistor programming		0~100%, 0									Vout				
4.lout resistor programming (*15)		0~100%, 0													
5.Output voltage monitor (*23)		0~5V or 0							11,11, 015	70 OI IUCC		-			
6.Output current monitor (*15) (*23)		0~5V or 0													
	T)					,									
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	1	I n						0 0 .	. 0((0((37.16	201/14			10. 1
1. Power supply OK #1 signal		Power sup												Current:	IUMA.
2. CV/CC signal 3. LOCAL/REMOTE Analog control		CV/CC Mo Enable/Di												/ or open	
4. LOCAL/REMOTE Analog signal		analog pro													
5. ENABLE/DISABLE Signal		Enable/Di												Curre	IVIIIA.
6. INTERLOCK (ILC) control		Enable/Di									<u>. </u>				
7. Programmed signals		Two open					1								
8. TRIGGER IN / TRIGGER OUT signals		Maximum	low level	input volt	age = 0.8	V,Minimur	m high lev	el input v	oltage = 2					sitive edg	je trigger:
<u> </u>		tw=10us n	ninimum.	Tr,Tf=1us I	Maximum	, Min dela	y betweer	n 2 pulses	1ms.						
9. DAISY_IN/SO control signal		By electric					t.								
10. DAISY_OUT/PS_OK #2 signal		4~5V=OK,	0V (500o	hm imped	iance)=Fa	II									
FUNCTIONS AND FEATURES															
1. Parallel operation		Possible. U	Jp to four	(4) identic	al GSP un	its. For mo	ore power	please co	nsult with	n Factory.					
2. Series operation		Consult w	-	-											
3. Daisy chain		Power sup													
4. Constant power control		Limits the													
5. Output resistance control		Emulates													
6. Slew rate control		Programm					ate. Progr	amming r	ange: 0.00	001~999.9	9 V/mSec	or A/mSe	ec. Prograr	nming via	the the
7. Arbitrary waveforms		Profiles of					nory cells	Activation	hy com	mand viz +	he comm	unication	norts or h	v the fron	it nanel
		Li Totiles Of	ap to 100	reps call	י אב זנטופנ	- IIIEII	ioi y ceiis.	, cuvation	i by coiill	nanu vid t	ire commit	unication	POLIS OF D	y the HUII	r 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 ra	ated outp	ut voltace											
2.lout programming accuracy (*16)		0.05% of ra													
3.Vout programming resolution		0.002% of			16										
			. uccu out												
	_		rated out	put currer	nt										
4.lout programming resolution		0.002% of							-		,				
			ated outp	ut voltag			-								
4.lout programming resolution 5.Vout readback accuracy		0.002% of 0.05% of r	ated outputed	ut voltag		0.003%	0.002%	0.002%	0.011%	0.007%	0.005%	0.004%	0.003%	0.003%	0.002%

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10 20	30	40	50	60	80	100	15	50	200	300	400		500	600
1.Foldback protection			Output shut-do User presetable														
2.Over-voltage protection (OVP)			Output shut-do	wn. Reset b	y AC input	recycle in	autostart	mode, by	OUTPUT	T button	, by rea	ar panel	or by con	nmunic	ation.		
3.Over -voltage programming rar		V	0.5~12 1~2			5~55.125	5~66.15	5~88.2	5~110.2	25 5~16	5.37 5	~220.5	5~330.75	5~44	1 5~5	551.25	5~661.5
4. Over-voltage programming acc			+/-1% of rated of														
5.Output under voltage limit (UVI	_)		Prevents from a						progran	nming. P	Preset b	y front	panel or c	ommu	nicatio	n port.	
6.Over temperature protection			Shuts down the				art mode										
7. Output under voltage limit (UV	L)		Prevents adjust														
8. Output under voltage protection	on (UVP)		Prevents adjust mode, by Powe								conditi	ion. Rese	et by AC i	iput red	cycle ir	1 autosta	art
FRONT PANEL																	
1.Control functions			Multiple option	s with 2 End	oders												
			Vout/Iout/Pow	er Limit mar	ual adjust												
			OVP/UVL/UVP r														
			Protection Fund														
			Communication			of LAN,IEE	E,RS232,	RS485,USE	B or Option	onal con	nmunio	cation in	iterface.				
			Output ON/OFF														
			Communication														
			Analog Control								K prog	rammin	g				
			Analog Monito						ng 5V/10V	/							
2.Display			Vout: 4 digits, a														
25 10 10 11 11 11			lout: 4 digits, ad						ON CONE	ICUDAT	1011.0	CTEAL C	FOLIENCE				
3.Front Panel Buttons Indications			OUTPUT ON, AL														
4. Front Panel Display Indications		Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.															
ENVIRONMENTAL CONDITIONS																	
1.Operating temperature			0~50°C, 100% l	oad.													
2.Storage temperature			-30~85°C														
3.Operating humidity		%	20~90% RH (no	condensati	on)												
		%	10~95% RH (no														
4.Storage humidity							.: 20//	100 T	1 0	106 (10		200			400	005: (10)	000)
5.Altitude (*17)			Operating: 1000	10TT (3000m	, output ci	urrent dera	iting 2%/	100m or 1a	a derating	g 1°C/10	om abo	ove 2000	m. Non c	peratin	ig: 400	00ft (120	uuum).
MECHANICAL																	
1.Cooling			Forced air cooli	ng by interr	al fans. Air	flow direc	tion: fron	n Front pa	nel to po	ower sup	oply rea	ir					
2.Weight	GSP 10kW	kg	Less than 15.5k	j													
3.Dimensions (WxHxD)	GSP 10kW	mm	W: 423, H: 88, [W: 423, H: 88, [: 441.5 (With : 640 (Includ	iout busba ling busbai	rs and bush rs and busb	ars cover, ars cover,), and strain	n relief) (R	Refer to C	Outline	drawing).				
2.Weight	GSP 15kW	kg	Less than 23.5k	g.													
3.Dimensions (WxHxD)	GSP 15kW	mm	W: 423, H: 132. W: 423, H: 132.	5, D: 441.5 (5, D: 640 (In	Without bi	usbars and usbars and	busbars o	cover), cover, and	strain rel	lief) (Ref	er to O	utline di	rawing).				
4.Vibration			MIL-810G, meth	od 514.6, Pı	ocedure I,	test condit	tion Anne	x C - 2.1.3	.1								
5.Shock			Less than 20G, l	alf sine, 11r	nSec. Unit	is unpacke	d.										
SAFETY/EMC																	
1.Applicable standards:	Safety		UL61010-1, CSA	22.2 No.L61	010-1, IECL	.61010-1, EN	NL61010-1	l.									
1.1. Interface classification	,		Vout≤50V Mod 60≤Vout≤600V	els: Output, Models: Ou	J1, J2, J3, J4 tput & J8 (s	4, J5, J6, J7, sense) are h	J8 (sense) & J9 (con s, J1, J2, J3	mmunica 3, J4, J5, J6	ition opt 6, J7 & J9	tions) a	re Non F	lazardou:	i. ns) are l	Non Ha	azardous	s.
1.2 Withstand voltage			Vout≤50V Mod Input - Ground 60V≤Vout≤100 Output & J8 (s Output & J8 (s 100V <vout≤60 Output & J8 (s Output & J8 (s Input - Ground</vout≤60 	lels: Input - : 2835VDC V Models: ense) - J1, ense) - Gro OV Models ense) - J1, ense) - Gro	Output & 1min. Input – Output & 2, J3, J4 und: 1500: Input – C J2, J3, J4 und: 2500	J8 (sense utput & J8 , J5, J6, J7 OVDC 1mir Output & J8 , J5, J6, J7	e), J1, J2 (sense), 7 & J9 (con, Input - 3 (sense) 7 & J9 (con	, J3, J4, J J1, J2, J3 ommunic Ground: , J1, J2, J	J5, J6, J7 3, J4, J5 ation op 2835VD J3, J4, J5	7 & J9 (6), J6, J7 (6), J6, J7 (7), J6, J7 (7), J6, J7 (7), J7	& J9 (350VD	unicatio commu C 1min. 9 (comr	n options	s): 4242 options	2VDC s): 4242	1min, 2VDC 1	1min,
1.3 Insulation resistance			GSP10kW/15kW	: 60 Mohm	at 25°C, 70	%RH. Outp	ut to Gro	und 500\	VDC								
2.Conducted emmision			IEC/EN61204-3							CCI-A.							
3.Radiated emission			IEC/EN61204-3					,			CI-A.						
4. EMC compliance	EMC(*18)		IEC/EN61204-3							.5 ,, , ,							
4. Line compliance	LITIC(10)		ILC, LINUIZU4-3	naustrial El													

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 10k1/°C above 40°C. GSP 15kW! Derate 15k1/°C above 40°C.

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

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

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

 *7: 3-Phase 200V models: 170-265Vac, 3-Phase 400V models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.

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

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

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

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

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

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

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

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

 *16: Measured at the sensing point.

 *17: For 10V model Ta derating 2°C/100m."

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

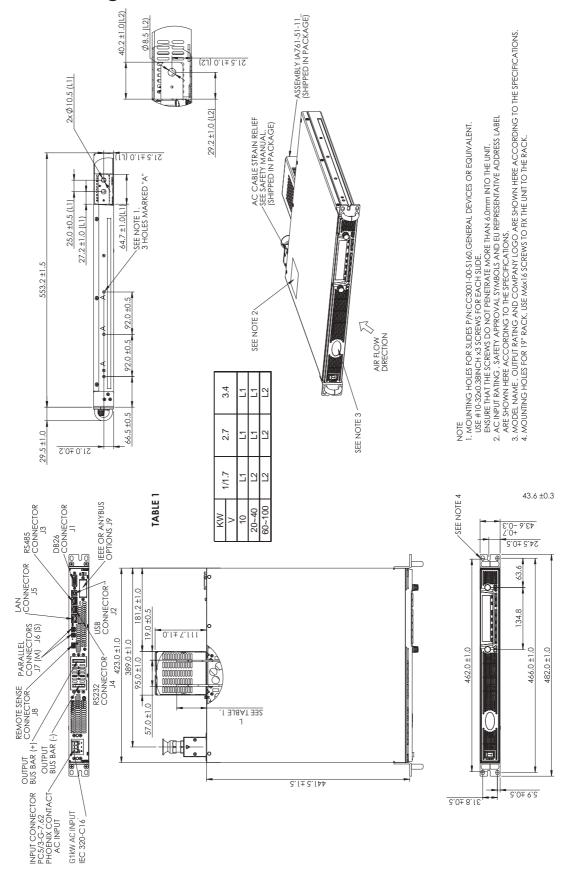
 *19:Max. ambient temperature for using IEEE is 40°C.

 *20:GSP10kW For 10V model only: Max. output current for using IEEE is 1200A up to 40°C and 900A up to 30°C.

 *21: For 10V model only: For 3-Phase 200V efficiency is 88.5%

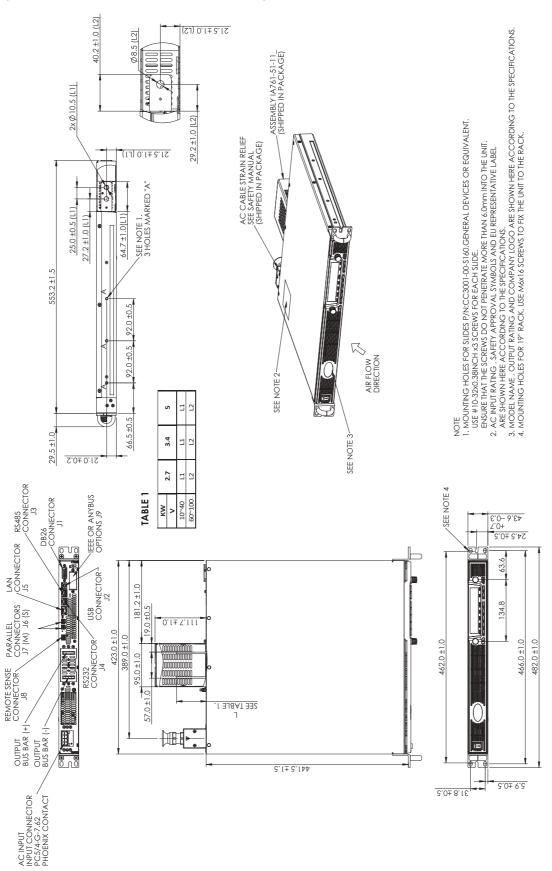
 *22: Typ, at Ta=25°C, rated output power.

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



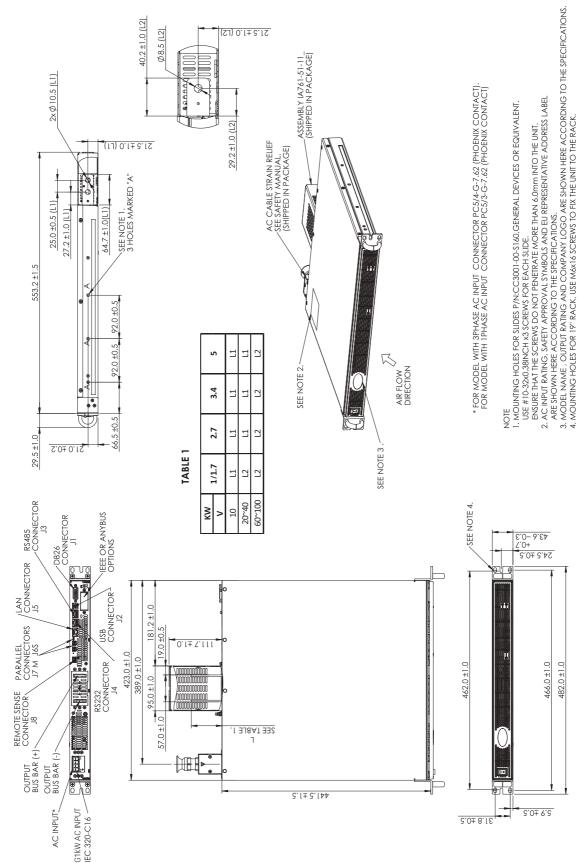
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase

(Not includes G+5kW models: 1000V & 1500V).

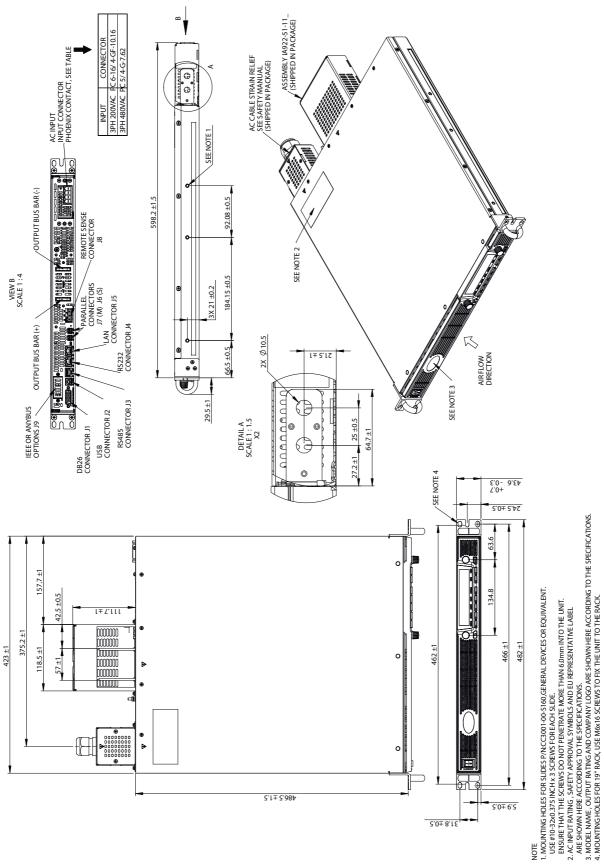


Outline Drawing GENESYS[™] GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version

(Not includes G+5kW models: 1000V & 1500V).



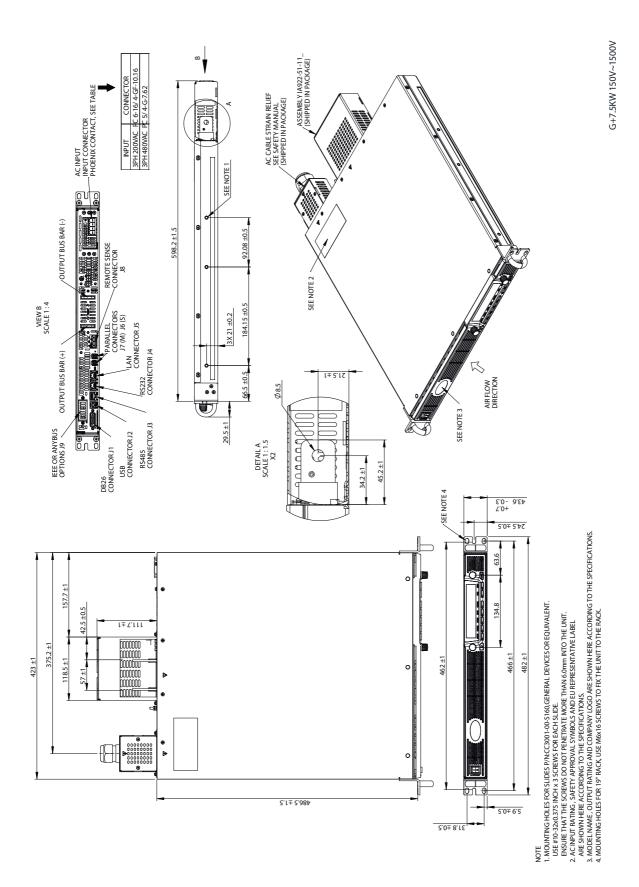
Outline Drawing GENESYS[™] G7.5kW - LV (20V-100V) 3-Phase



G+7.5KW 20V~100V

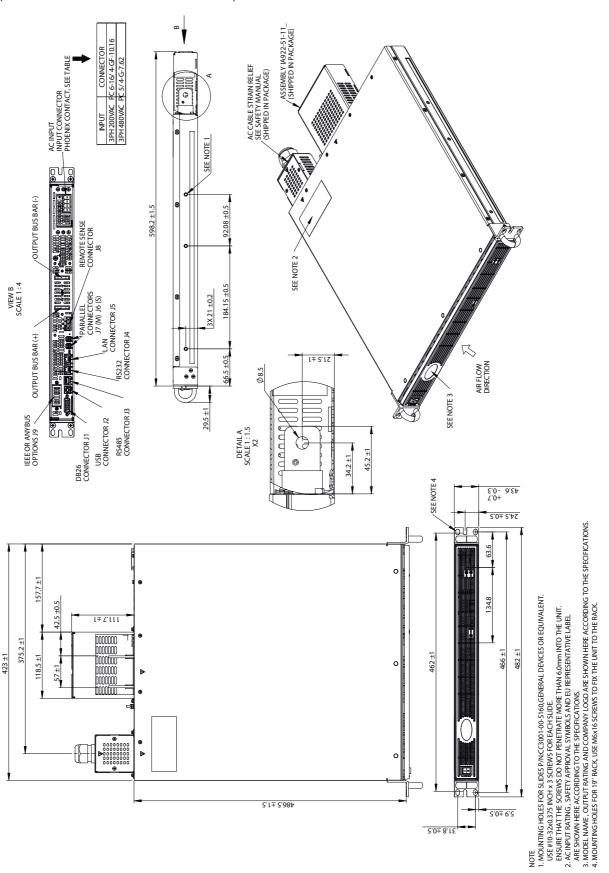
Outline Drawing GENESYS™ G7.5kW - HV (150V-1500V) 3-Phase

(includes G+5kW models: 1000V & 1500V).



Outline Drawing GENESYS™ GB7.5kW ATE Version

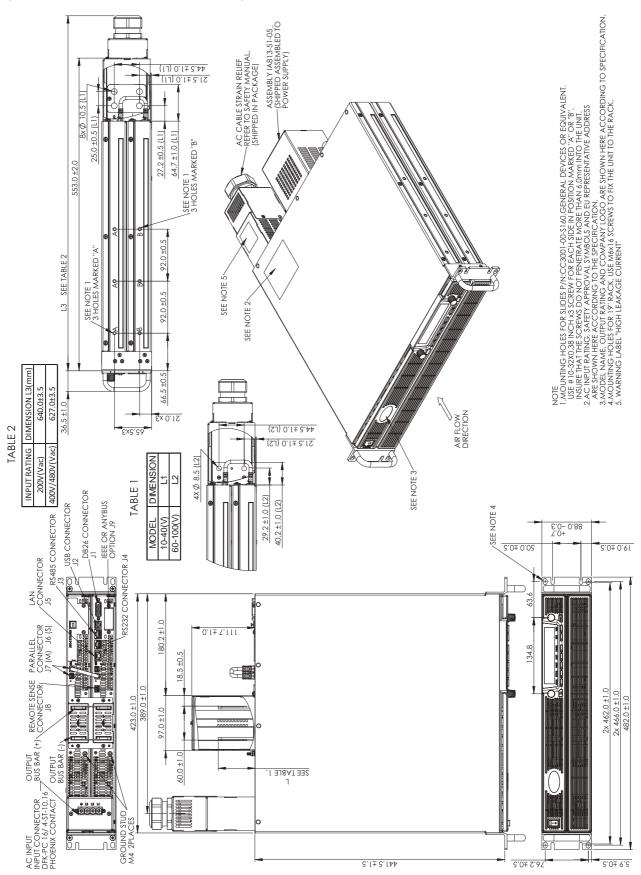
(includes G+5kW models: 1000V & 1500V).



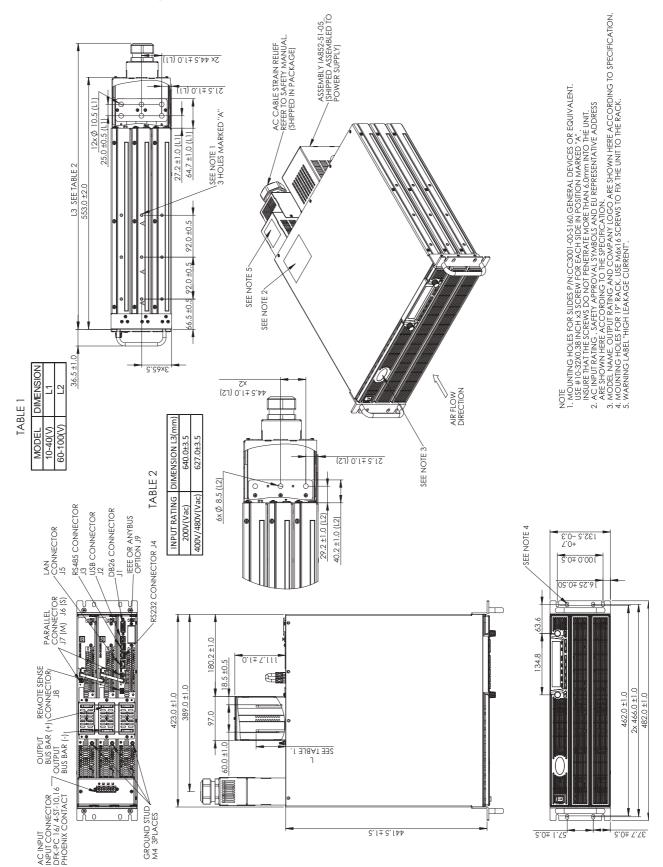
G+7.5KW BLANK 150V~1500V

Outline Drawing GENESYS™ GSP10kW

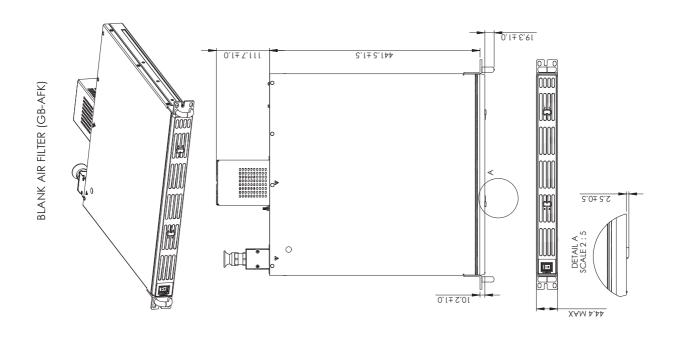
(includes G+5kW models: 1000V & 1500V).

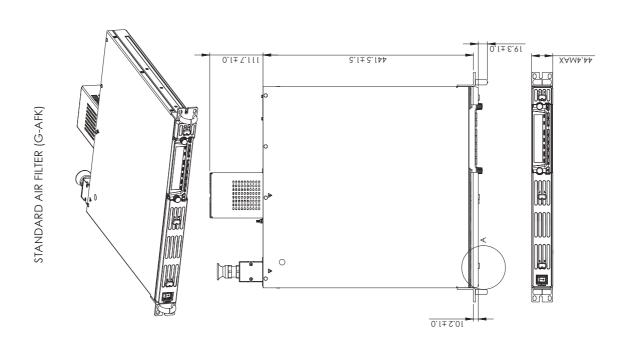


Outline Drawing GENESYS™ GSP15kW



Outline Drawing **GENESYS™** Air Filter Kit





Front Panel Air Filter Assembly

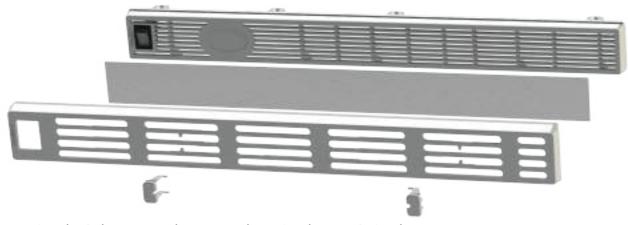
Front panel dust cover is available for dusty air environment applications

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



A761-04-06 Rev. M





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