

Advanced Test Equipment Corp.

800-404-ATEC (2832) www.atecorp.com



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/lout)
- Constant Power Limit Operation Internal Resistance Programming
 - Built-In Remote Isolated Analog Interface
 - Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 - Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 - Blank Front Panel Option Available





Trusted • Innovative • Reliable



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

Features include:

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

Applications

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

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

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

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

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

G1kW-7.5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



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

G7.5kW Rear Panel Description



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

GSP10kW Front Panel Description



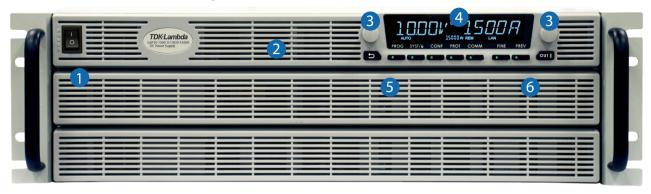
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP10kW Rear Panel Description



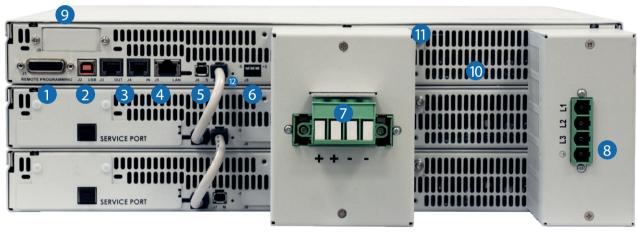
- Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5. Auto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

GSP15kW Front Panel Description



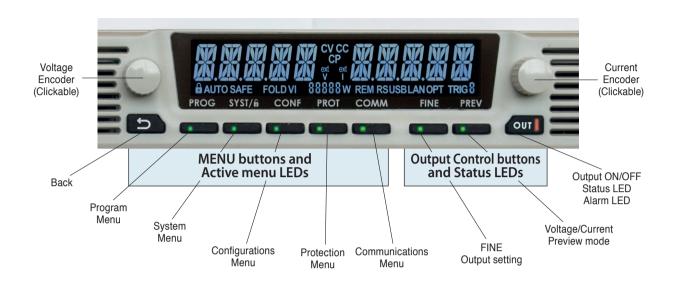
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

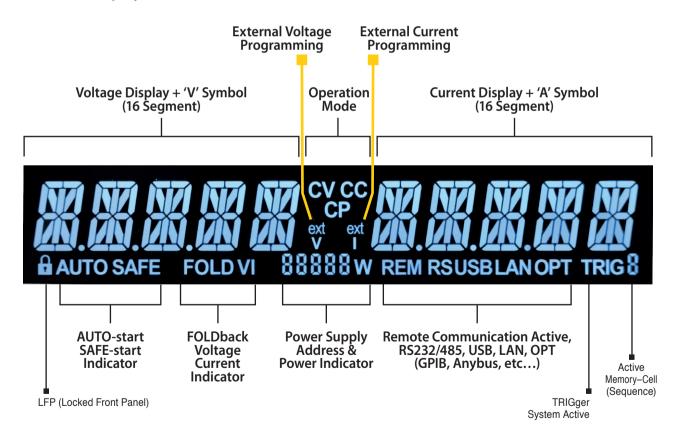


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators





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

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

The power supply can be controlled via the rear panel Remote digital interface (LAN, USB, RS-232/RS-485) or via the remote Isolated Analog interface.

GENESYS™ Parallel and Series ConfigurationsParallel operation - Master/Slave:

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

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

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

Order P/N: G/P - 6U

Standard Unit - zero stacked up to 12 units



Series operation

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

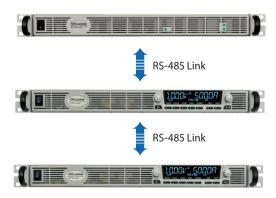
Multi-Drop Remote Programming via Communication Interface

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

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



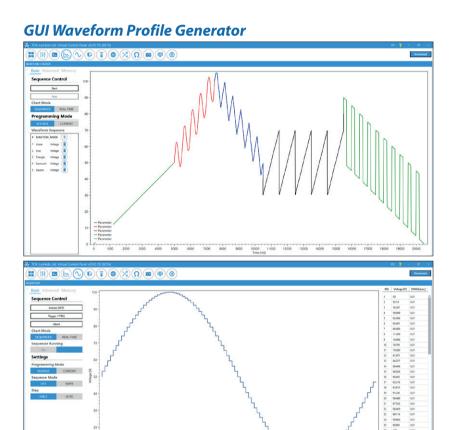


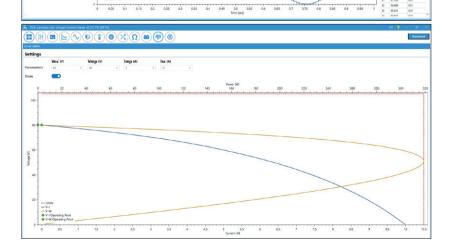


Graphical User Interface

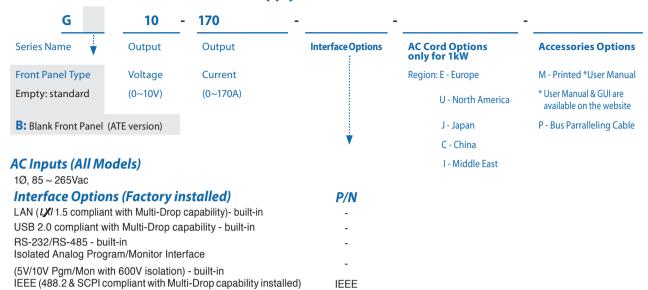
Advanced "Virtual Control Panel" allows programming and monitoring unit(s) with or without front panel display.

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





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



MDBS

ECAT

IS420

Models 1kW

(4mA-20mA with 600V isolation)

Isolated Analog Current Program/Monitor Interface

Modbus-TCP

EtherCAT

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

Models 1.7kW

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

Accessories

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

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

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

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

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

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

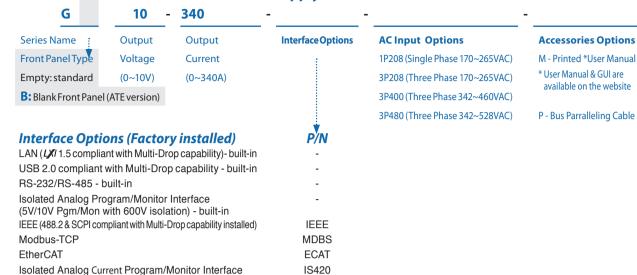
3. Bus Paralleling cable

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

4. User Manual

Printed User Manual	G/M

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



Models G2.7kW

(4mA-20mA with 600V isolation)

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

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

Models G3.4kW

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

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

Accessories

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

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

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

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

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

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

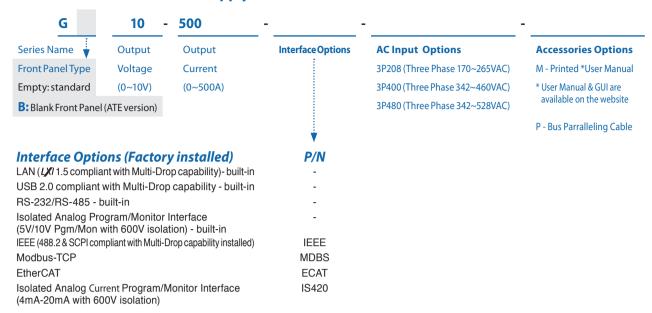
3. Bus Paralleling cable

3			
Connectors	Cables	P/N	
2013595-1 (TYCO)	Shielded L=11cm	G/P	

4. User Manual

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



Models 5kW

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

Model	Voltage (VDC)	Current (A)	Power (W)
G100-50	0~100V	0~50	5000
G150-34	0~150V	0~34	5100
G200-25	0~200V	0~25	5000
G300-17	0~300V	0~17	5100
G400-13	0~400V	0~13	5200
G500-10	0~500V	0~10	5000
G600-8.5	0~600V	0~8.5	5100

Accessories

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

1. Serial Communication cable

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

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

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

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

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

3. Bus Paralleling cable

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

4. User Manual

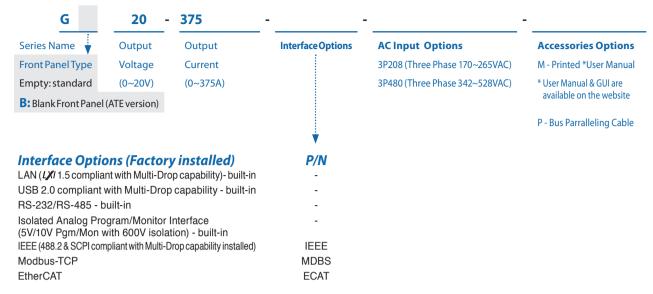
Printed User Manual	G/M

5. Parallel Kit: 20kW/30kW

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

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

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



Models 7.5kW

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

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

Model A

■ Model B

Accessories

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

1. Serial Communication cable

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

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

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

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

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

3. Bus Paralleling cable

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

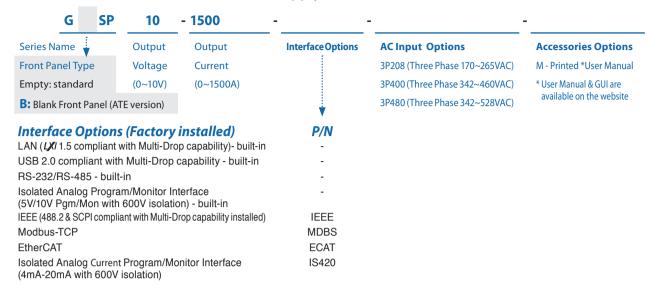
4. User Manual

Printed User Manual	G/M

5. Parallel Kit: 30kW/45kW

G/P-4U: BusBar Parallel Kit for 30 kW operation G/P-6U: BusBar Parallel Kit for 45 kW operation

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



Models GSP 10kW

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

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

Models GSP 15kW

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

Model Voltage (VDC)		Current (A)	Power (kW)
GSP100-150	0~100V	0~150	15
GSP150-102	0~150V	0~102	15.3
GSP200-75	0~200V	0~75	15
GSP300-51	0~300V	0~51	15.3
GSP400-39	0~400V	0~39	15.6
GSP500-30	0~500V	0~30	15
GSP600-25.5	0~600V	0~25.5	15.3

Accessories

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

1. Serial Communication cable

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

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

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

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

3. User Manual

Printed User Manual	G/M

GENESYS™ Family Output Voltage and Current

Models Series		G (Std Front Panel Display) GB (Blank Front Panel Display)						GSP/GBSP (Scalable Power)	
Rated Power	1kW	1.7kW	2.7kW	3.4kW	5kW	7.5kW	10kW	15kW	
Voltage Range				Current F	Range (A)				
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A	-	0~1000A	0~1500A	
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A	0~375A	0~500A	0~750A	
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A	0~250A	0~340A	0~510A	
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A	0~188A	0~250A	0~375A	
0-50V	-	-	-	-	0~100A	-	0~200A	0~300A	
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A	0~125A	0~170A	0~255A	
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A	0~94A	0~130A	0~195A	
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A	0~75A	0~100A	0~150A	
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A	0~50A	0~68A	0~102A	
0-200V	-	-	-	-	0~25A	0~37.5A	0~50A	0~75A	
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A	0~25A	0~34A	0~51A	
0-400V	-	-	-	-	0~13A	-	0~26A	0~39A	
0-500V	-	-	-	-	0~10A	-	0~20A	0~30A	
0-600V	0~1.7A	0~2.8A	0~4.5A	0~5.6A	0~8.5A	0~12.5A	0~17A	0~25.5A	
0-1000V	-	-	-	-	-	0~7.5A	-	-	
0-1500V	-	-	-	-	-	0~5A	-	-	
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	8.5/18.7	15.5/34.2	23.5/51.8	

AC Input Range

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

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

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



Models 1kW

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

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)
GH80-12.5	0~80V	0~12.5	1000
GH100-10	0~100V	0~10	1000
GH150-7	0~150V	0~7	1050
GH300-3.5	0~300V	0~3.5	1050
GH600-1.7	0~600V	0~1.7	1020

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

GENESYS™ 1kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)	٧	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)	Α	100	50	34	25	17	12.5	10	7	3.5	1.7
3.Rated output power	W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47	~63Hz, Single	Phase						
2. Maximum Input current at 100% load (100/200)	Α	12.5/6.5									
3.Power Factor (Typ) 4.Efficiency at 100 Vac/200Vac, rated output (*17)	%	0.99 @ 100Va 86/88	c 0.98 @ 200 87/89	Vac, rated out 87/89	put power. 87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	70 A	Less than 50A		0//09	0//09	0//09	0//09	00/90	00/90	00/90	00/90
			1	20	40	- 60		100	150	200	500
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) 3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	d output volta 50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient	PPM/°C			ut voltage, fol				12		20	100
6.Temperature stability							o. Constant line	e. load & temi	n.		
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	35	35	35	35	35	35	40	50	100	100
Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time: No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for outp	out voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang	e 10~90% of	rated output o	urrent. Outpu	t set-point:
·				than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		
12.Start up delay	Sec	Less than 6 Se	ec .								
13.Hold-up time	mS	<u> </u>			201	ms typical, rat	ed output pov	wer			
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)		0.02% of rate	d output curr	ent. +2mA							
2.Max. Load regulation (*9)		0.02% of rate	d output curr	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	llowing 30 mii	nutes warm-u	o.			
3.Temperature coefficient	11 W// C						utes warm-up.				
6.Temperature stability							o. Constant line				
7. Warm-up drift							minutes follo		n.		
		150V~600V: L	ess than +/-0	.15% of rated o	output current	over 30 minu	tes following p	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	FROMT	HE OUTPUT)									
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.15% of rated \	/out.			
2.lout voltage programming (*14)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated Io	out.			
3. Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acy and linear	ity: +/-0.5% of	rated lout.			
5.Output voltage monitor		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ited Vout.					
6.Output current monitor (*14)		0~5V or 0~10	V, user select	able. Accuracy	: +/-0.5% of ra	ited lout.					
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPU	T)										
1. Power supply OK #1 signal		Power supply	output moni	tor. Open coll	ector. Output	On: On. Outpu	ut Off: Off. Max	kimum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
2. CV/CC signal		CV/CC Monito	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	m Voltage: 30\	V, Maximum S	ink Current: 1	0mA.	
3. LOCAL/REMOTE Analog control		Enable/Disab	le analog pro	gramming coi	ntrol by electri	ical signal or c	lry contact. Re	mote: 0~0.6V	or short. Loc	al: 2~30V or op	en.
4. LOCAL/REMOTE Analog signal		analog progra	amming contr	ol monitor sig	nal. Open colle	ector. Remote:	On. Local: Off.	Maximum Vo	ltage: 30V, Ma	ximum Sink Cu	rrent: 10mA.
5. ENABLE/DISABLE signal							or short, 2~30				
6. INTERLOCK (ILC) control							: 0~0.6V or sho				
7. Programmed signals							mum sink curr				
8. TRIGGER IN / TRIGGER OUT signals										level input =	5V positive
-						num, Min del	ay between 2	2 pulses 1ms	i.		
9. DAISY_IN/SO control signal				5V/2~30V or dr	y contact.						
10. DAISY_OUT/PS_OK #2 signal		4~5V=UK, 0V	(SUUONM IMP	pedance)=Fail							
FUNCTIONS AND FEATURES											
1. Parallel operation							iction manual.				
2. Series operation				ts. Refer to ins							
3. Daisy chain							turn-on and t				
4. Constant power control			<u> </u>	1 33		, , , , , , , , , , , , , , , , , , , 	the communi				
	_	Emulator cori	es resistance.		nge: 1~1000m	nΩ. Programm	ing via the cor	mmunication		ront panel.	
5. Output resistance control											
Output resistance control Slew rate control		Programmab				rogramming r	ange: 0.0001~	999.99 V/mSe	c. or A/mSec.	Programming	via the
6. Slew rate control		Programmab communicati	on ports or th	e front panel.							
6. Slew rate control 7. Arbitrary waveforms		Programmab communicati	on ports or th	e front panel.						Programming orts or by the fi	
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN,		Programmab communicati	on ports or th	e front panel.							
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces)	 V	Programmab communicati Profiles of up	on ports or the to 100 steps of	te front panel. can be stored	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15)		Programmab communicati Profiles of up 10 0.05% of rate	to 100 steps of the 20 doubtput voltage	an be stored and age	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	 V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua	to 100 steps of 20 d output voltal l output curre	30 age ent+0.2% of ra	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14) 3. Vout programming resolution	V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	20 d output curred output voltaged output voltaged output voltaged output voltaged output vol	30 age ent+0.2% of raitage	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming accuracy (*14)	V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rat	to 100 steps of 20 d output voltal l output curre	30 age ent+0.2% of ratage	in 4 memory c	ells. Activatio	n by command	d via the comi	munication po	orts or by the fi	ont panel.
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1.Vout programming accuracy (*15) 2.lout programming accuracy (*14) 3.Vout programming resolution 4.lout programming resolution	V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate	20 d output voltal output voltal ed output curre ed output curre ed output curre	30 age ent+0.2% of raitage rrent age	in 4 memory c	ells. Activatio	n by command	d via the comi	nunication po	orts or by the fi	600
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. Lout programming accuracy (*14) 3. Vout programming resolution 4. Lout programming resolution 5. Vout readback accuracy	V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate	on ports or the to 100 steps of 20 d output voltal output curred output voltal output cursed output cursed output voltal	30 age ent+0.2% of raitage rrent age	in 4 memory c	ells. Activatio	n by command	d via the comi	nunication po	300	600
6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) 1. Vout programming accuracy (*15) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy 6. lout readback accuracy 6. lo	V	Programmab communicati Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat 0.002% of rate 0.05% of rate	20 d output volta l output volta ed output volta ed output cure	30 age ent+0.2% of ratage erent	40 ted output cui	60	n by command	100	150 0.25% of rate	300 add output curro	600

GENESYS[™] 1.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-170	20-85						150-11.2		600-2.8				
		V			30-56	40-42	60-28	80-21	100-17 100		300-5.6	600				
1.Rated output voltage(*1) 2.Rated output current (*2)		A	10 170	20 85	30 56	40 42	60 28	80 21	17	150 11.2	300 5.6	600 2.8				
3.Rated output current (*2)		W	1700	1700	1680	1680	1680	1680	1700	1680	1680	1680				
5. Kated output power		VV	1700	1700	1000	1000	1000	1000	1700	1000	1000	1000				
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600				
1.Input voltage/freq. (*3)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase										
2. Maximum Input current at 100	% load (100/200)	Α	20/10													
3.Power Factor (Typ)			0.99 @ 100Va	c 0.98 @ 200	Vac, rated out	put power.										
4.Efficiency at 100 Vac/200Vac, ra	ated 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 50A	A .												
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600				
						40	60	00	100	150	300	000				
1.Max. Line regulation (*6)			0.01% of rate		J .	-					_					
2.Max. Load regulation (*7)			0.01% of rate	d output volta	ige +2mV											
3.Ripple and noise (p-p, 20MHz)	(*8)	mV	50	50	50	60	60	75	75	75	120	500				
4.Ripple r.m.s. 5Hz~1MHz (*8)		mV	6	6	6	7	7	10	12	8	20	100				
5.Temperature coefficient		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-up).								
6.Temperature stability						lowing 30 min			a load & tem	n						
										ρ.						
7. Warm-up drift				1		-2mV over 30 r					_	_				
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5				
9.Up-prog. Response time (*11)		mS	20	20	20	20	20	20	25	50	100	100				
	Full load (*12)	mS	30	30	60	60	60	60	60	120	220	200				
10.Down-prog.response time:	No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600				
	1101000 (12)										urrent. Output					
11.Transient response time		mS	10~100%. I o	cal sense. Less	than 1mS. for	models up to	and including	100V, 2mS, fo	r models abo	ve 100V.	arrent. output	sec-point:				
12.Start up delay		Sec	Less than 6 Se			ap to		,								
· · · · · · · · · · · · · · · · · · ·			ress riigii o 36				me tumi!	ad autrott								
13.Hold-up time		mS				161	ııs typical, rat	ed output pov	ver							
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600				
1.Max. Line regulation (*6)				d output curre												
2.Max. Load regulation (*9)																
		_		d output curre						1						
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5				
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mir	nutes warm-up).							
5. remperature coemcient		FFIVI/ C	150V~600V	70PPM/°C fro	m rated outpu	ut current, follo	owing 30 minu	utes warm-up.								
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-up	. Constant line	e, load & temp	perature.						
. ,			10\/100\/ mc	1.1.1	0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. Constant line, load & temperature.											
			10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on.													
7. Warm-up drift			10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. 150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.													
7. Warm-up drift										on.						
7. Warm-up drift ANALOG PROGRAMMING AND N	MONITORING (ISOLATED		150V~600V: L							on.						
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED		150V~600V: L	ess than +/-0.	.15% of rated o	output current	over 30 minu	tes following p	oower on.	on.						
ANALOG PROGRAMMING AND I		FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5	ess than +/-0.	.15% of rated o	output current	over 30 minu linearity: +/-0	tes following p .15% of rated \	oower on. /out.	on.						
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*12		FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	ess than +/-0. V or 0~10V, us V or 0~10V, us	15% of rated	Accuracy and	over 30 minu linearity: +/-0 linearity: +/-0	tes following p .15% of rated \ .4% of rated lo	oower on.	on.						
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*14 3. Vout resistor programming	4)	FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. scale, user selectable.	Accuracy and Accuracy and Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.						
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*12	4)	FROM T	150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. scale, user selectable.	Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.						
ANALOG PROGRAMMING AND I 1. Vout voltage programming 2. lout voltage programming (*14 3. Vout resistor programming	4)	FROM T	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full	er selectable. er selectable. scale, user selectable.	Accuracy and Accuracy and Accuracy and	linearity: +/-0 linearity: +/-0 acy and linear acy and linear	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.						
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor	4)	FROM T	150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full :	er selectable. ser selectable. scale, user sele scale, user sele scale, user sele	Accuracy and Accuracy and ectable. Accuracy accuracy are ectable. Accuracy	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.						
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor 6.Output current monitor (*14)	4)		150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full :	er selectable. ser selectable. scale, user sele scale, user sele scale, user sele	Accuracy and Accuracy and Accuracy and ectable. Accura	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.						
ANALOG PROGRAMMING AND N 1.Vout voltage programming 2.lout voltage programming (*14 3.Vout resistor programming 4.lout resistor programming (*14 5.Output voltage monitor	4)		150V~600V: L HE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	V or 0~10V, us V or 0~10V, us V or 0~10V, us /10Kohm full : /10Kohm full :	er selectable. ser selectable. scale, user sele scale, user sele scale, user sele	Accuracy and Accuracy and ectable. Accuracy accuracy are ectable. Accuracy	linearity: +/-0 linearity: +/-0 acy and linear acy and linear ted Vout	tes following p .15% of rated \ .4% of rated lo ity: +/-0.5% of	/out.	on.						
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GENESYS™ 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut- User presetal	down when 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 fr	om CC or Pow ton, by rear pa	er Limit to C\ inel or by con	mode.
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	by AC input re	cycle in autost	art mode, by	OUTPUT butt	on, by rear pa	nel or by com	munication.	
3.Over -voltage programming range		٧	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5
4. Over-voltage programming accura	асу			d output volta								
5.Output under voltage limit (UVL)						t. Does not ap		programming	j. Preset by fro	ont panel or co	mmunicatio	n port.
6.Over temperature protection						y autostart mo	de.					
7. Output under voltage limit (UVL)					ut below limit							
8. Output under voltage protection ((UVP)		Prevents adjumode, by Pov	stment of Vo ver Switch, by	ut below limit OUTPUT but	. P.S output tu ton, by rear pa	rns Off during nel or by con	g under voltag nmunication.	ge condition. I	Reset by AC in	put recycle in	autostart
FRONT PANEL												
1.Control functions			Multiple opti	ons with 2 En	coders							
			Vout/lout/Po									
			OVP/UVL/UV									
						dback, OCL, EI						
						LAN,IEEE,RS2	32,RS485,USE	3 or Optional c	ommunicatio	n interface.		
			Output ON/C			D ID (A)	1 10 1					
						Baud Rate, Ad tage/resistive				min a		
						Voltage/Curre			iok programii	ning		
2.Display						utput voltage		g 5 v/ 10 v.				
Z.o.spiay						put current +/						
3.Front Panel Buttons Indications						MMUNICATION		ON,CONFIGUR	ATION, SYSTE	M, SEQUENCE	R.	
4. Front Panel Display Indications			Voltage, Curr (communicat	ent, Power, C' ion), RS/USB/	V, CC, CP, Exter LAN/IEEE com	rnal Voltage, E munication, T	xternal Curre rigger, Load/	nt, Address, LI Store Cell.	FP, Autostart,	Safetstart, Fol	dback V/I, Re	note
ENVIRONMENTAL CONDITIONS												
1.Operating temperature			0~50°C, 1009	load								
2.Storage temperature			-30~85°C	ioau.					-			
3.Operating humidity		%	20~90% RH (ion)							
· · · · ·		%		io condensat								
4.Storage humidity							/ (100 T	1 11 1001	100 1	1000 N	.: 400	205: (12000)
5.Altitude			Operating: 10	000ft (3000m	n), output curr	ent derating 2 ^o	%/100m or 1a	derating 1°C/	100m above 2	2000m. Non op	erating: 4000	OUTT (12000m).
MECHANICAL					_							
1.Cooling			Forced air co	oling by inter	nal fans. Air flo	ow direction: fi	om Front pa	nel to power s	upply rear			
2.Weight		kg	Less than 5kg									
3.Dimensions (WxHxD)		mm				usbars and bu ousbars and b			Outline draw	ring).		
4.Vibration			MIL-810G, me	thod 514.6, P	rocedure I, tes	t condition Ar	nex C - 2.1.3	.1			_	
5.Shock			Less than 200	i, half sine, 11	mSec. Unit is ι	ınpacked.						
SAFETY/EMC												
	afety G1kW/G1.7kW		UI 61010-1 C	A22 2 No 610	010-1 IFC6101	D-1, EN61010-1						
	1kW/1.7kW		Vout≤50V Mo	dels: Output	J1, J2, J3, J4, J	5, J6, J7, J8 (ser ise) are hazard	nse) & J9 (con	nmunication o	ptions) are No	on Hazardous.	s) are Non Ha	zardous.
1.2 Withstand voltage G	lkW/1.7kW		Vout≤50V M Input - Grou 60V≤Vout≤1 Output & J8 Output & J8 100V <vout≤ Output & J8</vout≤ 	odels: Input nd: 2835VD0 00V Models: (sense) - J1, (sense) - Gro 600V Models (sense) - J1, (sense) - Gro	- Output & J&C 1min. Input - Outp J2, J3, J4, J! bund: 1500VI S: Input - Out J2, J3, J4, J! bund: 2500VI	3 (sense), J1, ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	J2, J3, J4, J e), J1, J2, J3 (communicate - Ground: se), J1, J2, J	15, J6, J7 & J9 3, J4, J5, J6, vation options) 2835VDC 1m 3, J4, J5, J6,	J7 & J9 (com I7 & J9 (com I: 850VDC 1n In. J7 and J9 (co	ation options) munication o	: 4242VDC ptions): 4242	Imin,
1.3 Insulation resistance			100Mohm at	25°C, 70%RH	Output to Gr	ound 500VDC						
2.Conducted emmision			IEC/EN61204	3 Industrial e	nvironment. A	Annex H table I	H.1 , FCC Part	15-A, VCCI-A .				
3.Radiated emission						Annex H table I						
	VIC (*4)			IEC/EN61204			,					

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

NOTES:

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

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

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

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

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

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

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

*8: For 10V-150V models: Measured with JEITA RC-9131C (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.

*13: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current.

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~							
1.Input voltage/freg. 3 phase, 3 w	vire + Ground (*4)				2~460Vac, 47~							
imput voltage/freq. 3 phase, 3 vi	viic i diodila (4)		3-Phase, 480	/ models: 342	2~528Vac, 47~	63Hz (Covers :	380/400/415/4	40/460/480Va	ic)			
			1-Phase, 200\	/ models: 170	~265Vac, 47~6	63Hz (Covers 2	200/208/230/2	240Vac)				
	3-Phase, 200V models:		10A @ 200Va	:								
2. Maximum Input current at	3-Phase, 400V models:		5.5A @ 380Va	С								
100% load	3-Phase, 480V models:	1	5.5A @ 380Va									
	1-Phase, 200V models:		16.5A @ 200V									
					30Vac, rated or	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	, ,,	, ,,	70.5	70.5	70.5	30.3	70.5
			Less than 50r	`								
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 volt	age							
2.Max. Load regulation (*8)			0.01% of rate		-							
3.Ripple and noise (p-p, 20MHz)	(*0)	mV	75	75	75	75	80	80	100	120	200	480
	()		8		-							
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV		10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C			ut voltage, fol							
6.Temperature stability			0.01% of rate	d Vout over 8	hrs interval fo	llowing 30 mii	nutes warm-u	p. Constant lir	ne, load & ten	np.		
7. Warm-up drift			Less than 0.0	5% of rated o	utput voltage	+2mV over 30	minutes follo	wing power or	n.			
8.Remote sense compensation/w	vire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
	110 IUdu (12)	1113										
11.Transient response time		mS	10-100% Lo	out voitage to	recover withi	n 0.5% of its ra	ated output to	g 100V. 2mS, f	ge 10~90% of	frated output	current. Outp	ut set-point:
10.0		_			5 (11411 11115, 10	i models up to	and includin	g 100v. 21113, 1	or models ab	ove 100v.		
12.Start up delay		Sec	Less than 6 Se	ec .								
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate						100	.50	300	
2.Max. Load regulation (*13)	DI (V4.1)	_	0.08% of rate			150	100					_
3.Ripple r.m.s. @ rated voltage. 3-		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-	-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fi	rom rated out	put current, fo	llowing 30 m	inutes warm-u	ıp.			
5.remperature coefficient		1 1 WI/ C	150V~600V	70PPM/°C fro	om rated outp	ut current, fol	lowing 30 mir	utes warm-up).			
			0.010/ of rato									
6.Temperature stability			0.01% Of fate	d Iout over 8h	rs. interval fol	llowing 30 mir	nutes warm-u	p. Constant lin	ne, Ioad & tem	nperature.		
								p. Constant lin 0 minutes follo		·		
6. Temperature stability 7. Warm-up drift			10V~100V mo	del: Less tha	n +/-0.25% of	rated output o	current over 3	0 minutes follo	owing power	·		
7. Warm-up drift			10V~100V mo 150V~600V: L	del: Less tha	n +/-0.25% of	rated output o	current over 3		owing power	·		
	MONITORING (ISOLATED		10V~100V mo 150V~600V: L	del: Less tha	n +/-0.25% of	rated output o	current over 3	0 minutes follo	owing power	·		
7. Warm-up drift	MONITORING (ISOLATED		10V~100V mo 150V~600V: L THE OUTPUT)	odel: Less than ess than +/-0	n +/-0.25% of 1.15% of rated	rated output o output curren	t over 30 mini	0 minutes follo	owing power power on.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1. Vout voltage programming		 O FROM	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5	odel: Less than ess than +/-0 V or 0~10V, u	n +/-0.25% of 1.15% of rated ser selectable.	rated output output output curren	t over 30 min	0 minutes follo utes following	owing power power on. Vout.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1. Vout voltage programming 2. lout voltage programming (*15		FROM	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5	odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u:	n +/-0.25% of l 1.15% of rated of ser selectable. ser selectable.	output curren Accuracy and	t over 30 minut d linearity: +/-	0 minutes folloutes following 0.15% of rated 0.4% of rated I	powing power power on. Vout. out.	·		
7. Warm-up drift ANALOG PROGRAMMING AND N 1. Vout voltage programming 2. lout voltage programming (*15 3. Vout resistor programming	5)	 D FROM T	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full	n +/-0.25% of i 1.15% of rated ser selectable. ser selectable. scale, user sel	rated output coutput coutput curren Accuracy and Accuracy and	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on. Vout. out. frated Vout.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 4.lout resistor programming (*15	5)	 D FROM ¹ 	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5	odel: Less than .ess than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full	n +/-0.25% of of nated of natable of nated of nated of nated of nated of nated of nated of na	Accuracy and Accuracy and Accuracy and ectable. Accuracy ectable. Accur	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes folloutes following 0.15% of rated 0.4% of rated I	owing power power on. Vout. out. frated Vout.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming 3.Vout resistor programming 4.lout resistor programming 6.15 5.Output voltage monitor	5)	 D FROM ¹ 	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	odel: Less than Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full V, user select	n +/-0.25% of of n.15% of rated of n.15% of rated of n.15% of rated of n.15% of rated of n.15% of n.15	Accuracy and ectable. Accuracy and ectable. Accuracy ectable. Accuracy et al. (2.1)	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on. Vout. out. frated Vout.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*15 3.Vout resistor programming (*15 4.lout resistor programming (*15	5)	 D FROM ¹ 	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	odel: Less than Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full V, user select	n +/-0.25% of of nated of natable of nated of nated of nated of nated of nated of nated of na	Accuracy and ectable. Accuracy and ectable. Accuracy ectable. Accuracy et al. (2.1)	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on. Vout. out. frated Vout.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)	5)	 D FROM 1	10V~100V mo 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10	odel: Less than Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full V, user select	n +/-0.25% of of n.15% of rated of n.15% of rated of n.15% of rated of n.15% of rated of n.15% of n.15	Accuracy and ectable. Accuracy and ectable. Accuracy ectable. Accuracy et al. (2.1)	t over 30 minut d linearity: +/- d linearity: +/- racy and linea	0 minutes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on. Vout. out. frated Vout.	·		
7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA)	5)	D FROM T	10V~100V mc 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	odel: Less than Less than +/-0 V or 0~10V, u: V or 0~10V, u: /10Kohm full /10Kohm full V, user select V, user select	n +/-0.25% of i .15% of rated ser selectable. ser selectable. scale, user sel scale, user sel able. Accuracy able. Accuracy	Accuracy and Accur	t over 30 minut d linearity: +/-i d linearity: +/- racy and linea racy and linea	0 minutes following 0.15% of rated 0.4% of rated I rity: +/-0.5% o	owing power power on. Vout. out. if rated Vout. if rated lout.	on.	num Sink Curr	rent: 10mA
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7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/I 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 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 resolution 4. Iout programming resolution 5. Vout readback accuracy	ACK (USB, LAN, 1)(*20) Interfaces)	T)	10V~100V mc 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum le edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab Profiles of up 0.05% of rate 0.1% of actua 0.002% of rate 0.005% of rate	odel: Less than +/-0 V or 0~10V, us or select V, user select V, us	n +/-0.25% of rated in 1.15% o	Accuracy and Accur	tover 30 minut d linearity: +/-i d linearity: +/-i d linearity: +/-i d linearity: +/-i acy and linea	o minutes following 0.15% of rated 0.4% of rated I 0.4% of rated I 0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma am Voltage: 33 dry contact. Re On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur input voltag lay between uction manual ir turn-on and a the commun ning via the co range: 0.0001-	owing power power on. Vout. out. if rated Vout. if rated lout. Youth with the control of the c	ge: 30V, Maxir Sink Current: V or short. Loo oltage: 30V, Masser selectable -30V or open. Shunted by 27 aximum high is.	10mA. cal: 2~30V or o ximum Sink Cu logic. V zener) level input = anel. front panel. . Programmin orts or by the	pen. Frent: 10mA. = 5V positive g via the front panel.
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7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming (*15 3.Vout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/I 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 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 resolution 4. Iout programming resolution 5. Vout readback accuracy	ACK (USB, LAN,)(*20) Interfaces)	T)	10V~100V mc 150V~600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum le edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab Profiles of up 0.05% of rate 0.1% of actua 0.002% of rate 0.005% of rate	odel: Less than +/-0 V or 0~10V, us or select V, user select V, us	n +/-0.25% of rated in 1.15% o	Accuracy and Accur	tover 30 minut d linearity: +/-i d linearity: +/-i d linearity: +/-i d linearity: +/-i acy and linea	o minutes following 0.15% of rated 0.4% of rated I 0.4% of rated I 0.4% of rated I rity: +/-0.5% o rity: +/-0.5% o rity: +/-0.5% o ut Off: Off. Ma am Voltage: 33 dry contact. Re On. Local: Off. or short, 2~30 e: 0~0.6V or sh imum sink cur input voltag lay between uction manual ir turn-on and a the commun ning via the co range: 0.0001-	owing power power on. Vout. out. if rated Vout. if rated lout. Youth with the control of the c	ge: 30V, Maxir Sink Current: V or short. Loo oltage: 30V, Masser selectable -30V or open. Shunted by 27 aximum high is.	10mA. cal: 2~30V or o ximum Sink Cu logic. V zener) level input = anel. front panel. . Programmin orts or by the	pen. Irrent: 10mA. = 5V positive g via the front panel.
7. Warm-up drift ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming 4.lout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/1) 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6.INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 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.lout programming resolution 4.lout programming resolution 4.lout programming resolution 5. Vout readback accuracy 6.lout readsack accuracy	ACK (USB, LAN,)("20) Interfaces) 16) 15)	T)	10V-100V mc 150V-600V: L THE OUTPUT) 0~100%, 0~5 0~100%, 0~5 0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 Enable/Disab analog progra Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum le edge trigge By electrical V 4~5V=OK, 0V Possible. Up t Possible. Two Power suppli Limits the ou Emulates seri Programmab communicati Profiles of up 0.05% of rate 0.1% of actua 0.002% of rate 0.002% of rate 0.005% of rated 0.2% of rated	odel: Less than +/-0 V or 0~10V, us	n +/-0.25% of rated of the control o	Accuracy and Accuracy and Accuracy and Accuracy and ectable. Accur	turrent over 30 minut over 30	0 minutes following 0.15% of rated 0.4% of rated 1 0.5% of rated 1 0.4% of rated 1 0.5% of rated 1 0.6% of rat	owing power power on. Vout. out. if rated Vout. if rated lout. Your with the control of the co	ge: 30V, Maxir Sink Current: V or short. Loo Itage: 30V, Ma ser selectable -30V or open. Shunted by 27 aximum high s.	10mA. cal: 2~30V or o ximum Sink Cu logic. V zener) level input = anel. front panel. c. Programmin orts or by the 300	g via the front panel.

GENESYS™ 3.4kW SERIES SPECIFICATIONS

Eleand counts under 17 V	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
April Selection Company													
State of control project W More 20 20 20 20 20 20 20 2											+		
Part Contact Part						-		+					
Filtrage 2004 models 19-18/06											-		
Phose 2000 models 201-200 models	INPUT CHARACTERISTICS		V						80	100	150	300	600
Abantamorphysical part analysis 2-Paine, 4800 2-Paine, 4	1.Input voltage/freq. 3 phase, 3 w			3-Phase, 400 3-Phase, 480 1-Phase, 200	V models: 342 V models: 342 V models: 170	2~460Vac, 47~0 2~528Vac, 47~6	63Hz (Covers 63Hz (Covers 3	380/400/415V 380/400/415/4	140/460/480Va	ac)			
Fig.		3-Phase, 400V models: 3-Phase, 480V models:		6.5A @ 380Va 6.5A @ 380Va	ac ac								
AFFECRING (1) Prof. Prof	3 Power Factor (Typ)												
Simple content (**Poi De De De De De De De D							_		00.5	20.5	1 00 5	00.5	20.5
Constant Volunte Englished Profile	, , , , ,					89.5	90	90	90.5	90.5	90.5	90.5	90.5
Max. Lise regulation (**)													
2 2 2 2 2 2 2 2 2 2							40	60	80	100	150	300	600
Simple ram of moles (p-1, 20/bits) (1 %)													
Aggide rank, Sele-Mibit (**) Selection		(*0)				_	75	- 00	- 00	100	120	200	400
Stemperature coefficient		*9)						-			1		
Comparative stability			-							15		00	100
Name										na load & tam			
Blemote service compensation with viel 100 V 2 2 5 5 5 5 5 5 5 5											ip.		
Supplement File F		ire (*10)			1			1	1	T	5	5	5
10.00mm prograsgoniae time													
10,00mm - 10 10,00mm -		Full load (*11)			-			-					
Transfert response time													
Constant United Sept Constant United Sept Constant United Sept Se			mS	Time for out	out voltage to	recover within	n 0.5% of its ra	ated output fo	or a load chan	ge 10~90% of	rated output	current. Outpi	ut set-point:
CONSTANT CURRENT MODE						s than 1mS, for	models up to	and includin	g 100V. 2mS, f	or models ab	ove 100V.		
1.Max Line regulation (??)													
2.Max Land regulation (**13)							40	60	80	100	150	300	600
3.18pple r.m. s) rated voltage_1-Phase (*14) m. m. \$1200 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$300 \$400 \$450													
## Applied m.s. @ rated voltage. 1-Phase (*14)						1							
3.1mperature coefficient								1	 	+			
50-Resperature coefficient	4.Rippie r.m.s. @ rated voitage. 1-1	nase (*14)	mA								≤40	≤12	≤8
Comparture stability	5.Temperature coefficient		PPM/°C										
10V-100V model: Less than +/o.25% of rated output current over 30 minutes following power on.	6.Temperature stability										perature.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1.You's voltage programming											•		
1.0out voltage programming	7. warm-up unit			150V~600V: I	Less than +/-0	.15% of rated o	output curren	t over 30 mini	utes following	power on.			
1.0out voltage programming	ANALOG PROGRAMMING AND M	ONITORING (ISOLATED	FROM 1	THE OUTPUT)									
2-100 with page programming (°15)						ser selectable.	Accuracy and	linearity: +/-	0.15% of rated	Vout.			
4.00tr tesistor programming (*15)	2.lout voltage programming (*15)		0~100%, 0~5	V or 0~10V, us	ser selectable.	Accuracy and	linearity: +/-	0.4% of rated	lout.			
SOutput voltage monitor	3.Vout resistor programming			0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	racy and linea	rity: +/-0.5% c	of rated Vout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)	4.lout resistor programming (*15))		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	racy and linea	rity: +/-0.5% c	of rated lout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. CV/CC Monitor. Open collector. Collector. Collector. Remote: On. Local: Open collector. Coll													
Power supply OK #1 signal	6.Output current monitor (*15)			0~5V or 0~10	JV, user select	able. Accuracy	r: +/-0.5%.						
Power supply OK #1 signal	SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPU	T)										
3. LOCAL/REMOTE Analog control				Power supply	y output moni	itor. Open coll	ector. Output	On: On. Outp	ut Off: Off. Ma	aximum Volta	ge: 30V, Maxin	num Sink Curre	ent: 10mA.
4. LOCAL/REMOTE Analog signal	2. CV/CC signal			CV/CC Monit	or. Open colle	ctor. CC mode	: On. CV mod	e: Off. Maximı	ım Voltage: 30	0V, Maximum	Sink Current:	10mA.	
5. ENABLE/DISABLE signal		1											
6. INTERLOCK (ILC) control				5, 5									rrent: 10mA.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9.										· · · · · · · · · · · · · · · · · · ·		logic.	
8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. Daisy chain signals 9. Daisy cha												7\/	
edge triggger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal													- 5\/ positi
9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6W/2~30V or dry contact. 10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, 0V (500 ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual. 2. Series operation Possible. Two identical units. Refer to instruction manual. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a proggrammed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 0.05% of rated output voltage 2. Jout programming accuracy (*16) 0.05% of rated output current+0.2% of rated output current 3. Vout programming resolution 0.002% of rated output current 5. Vout readback accuracy (*15) 0.2% of rated output current 7. Vout readback resolution (of rated output voltage) 0.0% of rated output current 7. Vout readback resolution (of rated output voltage) 0.0% of rated output current 7. Vout readback resolution (of rated output voltage) 0.0% of rated output current	8. TRIGGER IN / TRIGGER OUT sign	als		edge triage	r: tw=10us n.	at voitage = 0 ninimum. Tr.7	7.0v,minimu T=1us Maxir	nı nıgn level num, Min de	lay between	e = ۷.۵۷, Ma ا 2 pulses 1m	ixiiiium nigh is.	ievei input =	- 24 hositive
10. DAISY_OUT/PS_OK #2 signal	9. DAISY_IN/SO control signal												
1. Parallel operation													
1. Parallel operation	FUNCTIONS AND FEATURES												
2. Series operation				Possible Un	to 4 identical	units in Maste	r/Slave mode	Refer to instr	uction manua	ıl			
3. Daisy chain									action manua				
4. Constant power control 5. Output resistance control 6. Slew rate control 6. Slew rate control 7. Arbitrary waveforms Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel. Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vuot programming accuracy (*16) 2. Iout programming accuracy (*15) 3. Vout programming resolution 4. Iout programming resolution 4. Iout programming resolution 4. Iout programming resolution 5. Output current 6. Slew rate control 7. Output rise and Output day 8. Iout programming resolution 8. Iout readback accuracy 8. Iout readback accuracy (*15) 9. Output current 9. Output curr			_						r turn-on and	turn-off.			
5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vultuary programming accuracy (*16) 2. Iout programming accuracy (*15) 3. Vultuary programming resolution											or the front p	anel.	
6. Slew rate control													
Communication ports or the front panel.	6. Slew rate control			Programmab	ole Output rise	and Output f	all slew rate. P						g via the
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces) V 10 20 30 40 60 80 100 150 300 600			\vdash					colle Actions	n by ser	ad via +bc		orte or both	front nan-1
R5232/485, Optional IEEE(*19)(*20) Interfaces) V 10 20 30 40 60 80 100 150 300 600 1.Vout programming accuracy (*16)				rronnes of up	to 100 steps (an pe stored	114 memory o	Leiis. Activatio	ıı by comman	iu via the com	imunication p	orts or by the f	ront panel.
1.Vout programming accuracy (*16)			V	10	20	30	40	60	80	100	150	300	600
2.lout programming accuracy (*15)				0.05% of rate	d output volt	age							
3.Vout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy (*15) 0.2% of rated output voltage 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.001% 0.001% 0.007% 0.004% 0.002%							ted output cu	ırrent					
5.Vout readback accuracy													
6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%													
7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%													
	6.lout readback accuracy (*15)		i T										
10													
8.lout readback resolution (of rated output current))								-		+			

GENESYS™ 5kW SERIES SPECIFICATIONS

Section control program (**)	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
2 2 2 2 2 2 2 2 2 2										_			_				
Seale of companion Seale							-										
Part																	
Part	INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Space Spac	IN OT CHAINCELLISTICS										100	150	200	300	100] 300	000
Pinkur, State Stat	1.Input voltage/freg. 3 phase, 3 v	vire + Ground (*4)									/ac)						
Substitution Subs				3-Phase,	480V mod	dels: 342~	528Vac, 47	~63Hz (Co	overs 380/	400/415/4	40/460/48	30Vac)					
1906 1906	2 Maximum Input current at																
19.00 19.0																	
## Settlem Company (Chip (S) (F) (2) 20 91 91 91 91 91 91 91 9		3-Phase, 480V models:															
Stream From Prof. A International Prof. Dec. Dec																	
CRESTANT NOTIFICE MODE VI 10 20 30 40 50 50 60 80 100 150 200 200 400 500 600 400 500 400 500 400 500 400 500 400 500 400 500 400 500 400						91	91	90	91	91	91	91	91	92	92	92	92
Max. Lose regulation (?)																	
Maile General particus Fig. Sup. Sup								50	60	80	100	150	200	300	400	500	600
Stage Stag	1.Max. Line regulation (*7)																
Supple from 1.5 Supple S				0.01% of	rated out	put voltag	e +5mV										
Semperature coefficient	3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75		75	_		120	200	200	400	450	480
Semeste standing	4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
Nome to perform Part Par	5.Temperature coefficient		PPM/°C	50PPM/°0	from rat	ed output	voltage, f	following	30 minute	es warm-u	p.						
Semente seme compression of "1"	6.Temperature stability			0.01% of	rated Vou	t over 8hr	s interval	following	30 minute	es warm-u	p. Constai	nt line, loa	d & temp.				
100 mm progrespones time (**1) 110 mm 5 20 30 30 30 30 30 30 30	7. Warm-up drift			Less than	0.05% of	rated out	put voltag	je+2mV ov	er 30 min	utes follo	wing pow	er on.					
Monte of the proper personne time	8.Remote sense compensation/v	vire (*10)	٧	2	2	5	5	5	5	5	5	5	5	5	5	5	5
Monte of the proper personne time			mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10,00 ms		Full load (*11)				_	_			_							
1.75 anti-particular response time	IU.Down-prog.response time:									_	_	_	_				_
10-100%- Local terminal broad 100 Local terminal 100 Loca	11 Transient response +!			Time for	output vo	ltage to re	cover wit	hin 0.5% c	of its rated	output fo	r a load c	hange 10~	-90% of ra	ted outpu	it current.	Output se	et-point:
Constant Current MoDE	11.11alisient response time		1112	10~100%	, 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.			-
JAMA Line regulation [77]	12.Start up delay		Sec	Less than	5 Sec												
JAMA Line regulation [77]	CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.48x1.0cd regulation (**13)	1.Max. Line regulation (*7)			0.05% of	rated out	put currer	nt.										
3				0.08% of	rated out	but currer	nt.										
Stemperature Coefficient		.W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
1509-600V 70PPM/PC from rated output current, following 30 minutes warm-up, constant line, load & temperature.				10V~100\	/ 100P	PM/°C fro	m rated o	utput curr	ent, follov	ving 30 m	inutes wa	rm-up.					
Avam-up drift	5.1emperature coefficient		PPM/°C	150V~60	0V 70PP	M/°C from	rated out	tput curre	nt, followi	ing 30 mir	utes warr	n-up.					
Avam-up drift	6.Temperature stability			0.01% of	rated lou	over 8hrs	. interval 1	following	30 minute	es warm-u	p. Constai	nt line, loa	d & temp	erature.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM* THE OUTPUT)				10V~100\	/ model: l	ess than -	⊦/-0.25% c	of rated ou	tput curre	ent over 3	0 minutes	following	power or	٦.			
1.00ut voltage programming	/. Warm-up drift			150V~60	0V: Less tl	nan +/-0.1	5% of rate	d output o	urrent ov	er 30 min	utes follov	ving powe	er on.				
1.00ut voltage programming	ANALOG PROGRAMMING AND	MONITODING (ICOLATED	FROM	LIE OLITRI	IT)												
2-100 (who fage programming (*15) 0-100%, 0-510 (kbm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Yout.		WONTOKING (ISOLATED				101/ 1150	r coloctab	lo Accura	eu and lin	opritus 1/	0.150/ of v	stad Vaut					
-0-100%, 0-5710Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.		5)															
Allout resistor programming (**15)		2)											d Vout				
SOUTPUT Working monitor Soutput Voltage monitor Soutput Current monitor (*15) Soutput		z)														-	
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)		0)									11ty: +/-0.:	0% OI Tale	u iout.				
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)																	
1. Power supply OK #1 signal				0~37 01 0	/~10 v, use	ei seiectar	ne. Accura	icy. +/-0.5	70 OI Tatet	i iout.							
2. CV/CC signal		ATED FROM THE OUTPUT															
3. LOCAL/REMOTE Analog control	1. Power supply OK #1 signal			Power su	pply outp	ut monito	r. Open c	ollector. O	utput On:	On. Outp	ut Off: Of	f. Maximu	m Voltage	: 30V, Max	imum Sin	k Current:	10mA.
4. LOCAL/REMOTE Analog signal	2. CV/CC signal	-															
5. ENABLE/DISABLE signal	3. LOCAL/REMOTE Analog contro	ol		Enable/D	isable an	alog prog	ramming	control by	electrical	signal or	dry contac	ct. Remote	e: 0~0.6V	or short. L	ocal: 2~30	V or open	
6.INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to twelve (12) identical units in Master/Slave mode. Refer to instruction manual. For more power please consult with Factory 2. Series operation 9. Daisy_chain 9. Power supplies can be connected in Daisy chain to synchronize their trum-on and turn-off. 9. Cutput resistance control 9. Cutput resistance control 9. Cutput resistance control 9. Cutput resistance control 9. Carbor to the front panel. 9. Carbor to first your defined output voltage 9. Programmable Output rise and Output fall slew rate. Programming range: 0.0001-999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 9. Constant power control 9. Carbor to the front panel. 9. Constant power control 9. Carbor to the front panel. 9. Constant power control 9. Carbor to the front panel. 9. Constant power to a programmable output power to a programmed value. Programming via the communication ports or the front panel. 9. Carbor to the front panel. 9. Carbor to the front panel. 9. Constant power to a programmable output power to a programmed value. Programming via the communication ports or the front panel. 9. Cutput resistance control 9. Carbor to the front panel. 9. Constant power to a programmable output power to a programming via the communication ports or the front panel. 9. Carbor to the front panel. 9. Constant power to a programming range: 0.0001-999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 9. Constant power to a programming range: 0.0001-999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 9. Constant power to a programming range: 0.0001-999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 9. Constant power to a programming range: 0.0001-999.99 V/mSec. or A/mSec. Programming via the communication ports	4. LOCAL/REMOTE Analog signal			analog pr	ogrammi	ng control	monitor s	ignal. Ope	n collecto	r. Remote:	On. Local:	Off. Maxir	mum Volta	ige: 30V, M	laximum S	ink Curren	t: 10mA.
7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr,Tf=fus Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6V/2~30V or dry contact. 10. DAISY_OUTPS_OR #2 signal 4~5V=OK, 0V (500ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation Possible. Up to twelve (12) identical units in Master/Slave mode. Refer to instruction manual. 3. Daisy chain Possible. Two identical units. Refer to instruction manual. 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Emulates series resistance. Resistance range: 1-1000mQ. Programming via the communication ports or the front panel. 5. Slew rate control Emulates series resistance. Resistance range: 1-1000mQ. Programming via the communication ports or the front panel. 7. Arbitrary waveforms	5. ENABLE/DISABLE signal			Enable/D	isable PS	output by	electrical	signal or	dry conta	ct. 0~0.6\	or short,	2~30V or 0	open. Use	r selectabl	e logic.		
8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #3 signal 10. DAISY_OUT/PS_OK #4 signal	6. INTERLOCK (ILC) control			Enable/D	isable PS	output by	electrical	signal or	dry conta	ct. Remot	e: 0~0.6V	or short. L	ocal: 2~30	V or open			
positive edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.	7. Programmed signals			Two oper	n drain pr	ogramma	ble signals	s. Maximu	m voltage	25V, Max	imum sinl	current 1	00mA (Sh	unted by	27V zener)	
positive edge trigger: twi-lous minimum. It, IT is Maximum, Nin delay between 2 pluses ims.	8. TRIGGER IN / TRIGGER OUT sign	nals		Maximu	m low le	vel input	voltage:	= 0.8V,Mi	nimum h	igh leve	input vo	Itage = 2	.5V, Max	imum hig	h level ir	put = 5V	,
### FUNCTIONS AND FEATURES 1. Parallel operation										Maximun	n, Min de	lay betwo	een 2 pul	ses 1ms.			
FUNCTIONS AND FEATURES 1. Parallel operation				-					ct.							-	
1. Parallel operation	IU. DAISY_OU I/PS_OK #2 signal			4~5V=O	, UV (500	onm impe	dance)=F	all									
2. Series operation	FUNCTIONS AND FEATURES																
3. Daisy chain	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	ual. For m	ore powe	r please co	onsult with	Factory.
4. Constant power control 5. Output resistance control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms 8. Programming via the communication ports or the front panel. 8. Slew rate control 7. Arbitrary waveforms 9. Profiles of u to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 8. Programming range: 0.001~999.99 V/mSec. or A/mSec. Programming via the communication ports or by the front panel. 9. Profiles of u to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Profiles of u to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. Lout programming accuracy (*15) 3. Vout programming resolution 4. Lout programming resolution 5. Vout readback accuracy 6. Lout readback accuracy 7. O.002% of rated output voltage 6. Lout readback accuracy 8. O.02% of rated output current 8. Vout readback accuracy 8. O.02% of rated output current 8. Vout readback accuracy 9. O.02% of rated output current	2. Series operation			Possible.	Two iden	tical units	Refer to i	nstruction	manual.								
4. Constant power control 5. Output resistance control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms 8. Programming via the communication ports or the front panel. 8. Slew rate control 7. Arbitrary waveforms 9. Profiles of u to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 8. Programming range: 0.001~999.99 V/mSec. or A/mSec. Programming via the communication ports or by the front panel. 9. Profiles of u to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Profiles of u to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. RS232/485, Optional IEEE(*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. Lout programming accuracy (*15) 3. Vout programming resolution 4. Lout programming resolution 5. Vout readback accuracy 6. Lout readback accuracy 7. O.002% of rated output voltage 6. Lout readback accuracy 8. O.02% of rated output current 8. Vout readback accuracy 8. O.02% of rated output current 8. Vout readback accuracy 9. O.02% of rated output current				Power su	pplies car	n be conne	ected in D	aisy chain	to synchr	onize the	r turn-on	and turn-	off.				
5. Output resistance control														the front	panel.		
6. Slew rate control 7. Arbitrary waveforms													•			nel.	
Communication ports or the front panel. Communication ports or by the f				Programi	mable Ou	tput rise a	nd Outpu	t fall slew									a the
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 1.70 1.	6 Slaw rate control			commun	ication po	rts or the	front pan	el.									
R5232/485, Optional IEEE(*19)(*20) Interfaces)					t up to 10	0 steps ca	n be store	d in 4 mei	mory cells	. Activation	n by com	mand via	the comm	unication	marte ar l	by the fron	t panel.
R5232/485, Optional IEEE(*19)(*20) Interfaces)				Profiles o										iuiiicatioii	portsort		
2.lout programming accuracy (*15) 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 0.002% of rated output current 5.Vout readback accuracy 0.05% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.002%	7. Arbitrary waveforms PROGRAMMING AND READB.	ACK (USB, LAN,				20	40	50	60	00	100	150				500	600
3.Vout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy 0.2% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.002% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 9.001% 0.005% 0.005% 0.004% 0.003% 0.002% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	7. Arbitrary waveforms PROGRAMMING AND READB. RS232/485, Optional IEEE(*19	9)(*20) Interfaces)	V	10	20			50	60	80	100	150				500	600
4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy 0.05% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.003% 0.003% 0.002% 0.011% 0.007% 0.004% 0.003% 0.002%	7. Arbitrary waveforms PROGRAMMING AND READB. RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (**	9)(* 20) Interfaces) 16)	V	10 0.05% of	20 rated out	l put voltag	je				100	150				500	600
5.Vout readback accuracy	7. Arbitrary waveforms PROGRAMMING AND READB. RS232/485, Optional IEEE(*15 1. Vout programming accuracy (* 2. lout programming accuracy (*	9)(* 20) Interfaces) 16)	V 	10 0.05% of 0.1% of a	20 rated out	l put voltag out curren	l je t+0.2% of				100	150				500	600
6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	7. Arbitrary waveforms PROGRAMMING AND READB. RS232/485, Optional IEEE(*15 1. Vout programming accuracy (* 2. lout programming accuracy (*	9)(* 20) Interfaces) 16)	V 	10 0.05% of 0.1% of a	20 rated out	l put voltag out curren	l je t+0.2% of				100	150				500	600
7.Vout readback resolution (of rated output voltage)	7. Arbitrary waveforms PROGRAMMING AND READB RS232/485, Optional IEEE(*19 1.Vout programming accuracy (* 2.lout programming accuracy (* 3.Vout programming resolution	9)(* 20) Interfaces) 16)	V	10 0.05% of 0.1% of a 0.002% o	20 rated out ctual outp f rated ou	put voltag out curren itput volta	l je t+0.2% of ige				100	150				500	600
	7. Arbitrary waveforms PROGRAMMING AND READB RS232/485, Optional IEEE(*19 1. Vout programming accuracy (* 2. lout programming accuracy (* 3. Vout programming resolution 4. lout programming resolution 5. Vout readback accuracy	9)(* 20) Interfaces) 16)	 	10 0.05% of 0.1% of a 0.002% o 0.002% o 0.05% of	20 rated out ctual outp f rated ou f rated out	put voltag put curren itput volta itput curre	t+0.2% of ge ent ge				100	150				500	600
8.lout readback resolution (of rated output current) % 0.003% 0.005% 0.006% 0.009% 0.011% 0.002% 0.002% 0.002% 0.003% 0.004% 0.004% 0.004% 0.006% 0.008% 0.011% 0.002%	7. Arbitrary waveforms PROGRAMMING AND READB. RS232/485, Optional IEEE(*15 1.Vout programming accuracy (* 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15))(*20) Interfaces) 16) 15)	 	10 0.05% of 0.1% of a 0.002% o 0.002% o 0.05% of 0.2% of ra	20 rated out ctual outp frated ou frated out rated outp	put voltag out curren itput volta itput curre tput volta ut current	t+0.2% of age ent	rated out	put currer	nt			200	300	400		
	7. Arbitrary waveforms PROGRAMMING AND READB. RS232/485, Optional IEEE(*15 1.Vout programming accuracy (* 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15))(*20) Interfaces) 16) 15)	 	10 0.05% of 0.1% of a 0.002% o 0.002% o 0.05% of 0.2% of ra 0.011%	rated out ctual outp frated ou frated out rated outp o.006%	put voltag put curren itput volta itput curre cput voltag ut current 0.004%	t+0.2% of ige ent ge : 0.003%	rated out	out currer	0.002%	0.011%	0.007%	0.005%	0.004%	400		0.002%

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

PROTECTIVE FUNCTIONS		V	10 20 30 40 50 60 80 100 150 200 300 400 500 600
1.Foldback protection			Output shut-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User presetable. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.
2.Over-voltage protection (OVP)			Output shut-down. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication.
3.Over -voltage programming rang	e	V	0.5~12 1~24 2~36 2~44.1 5-55.125 5~66.15 5~88.2 5~110.25 5~165.37 5~220.5 5~330.75 5~441 5~551.25 5~661
4. Over-voltage programming accu	racy		+/-1% of rated output voltage
5.Output under voltage limit (UVL)			Prevents from adjusting Vout below limit. Does not apply in analog programming. Preset by front panel or communication port.
6.Over temperature protection			Shuts down the output. Auto recovery by autostart mode.
7. Output under voltage limit (UVL)			Prevents adjustment of Vout below limit.
8. Output under voltage protection	(UVP)		Prevents adjustment of Vout below limit. P.S output turns Off during under voltage condition. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.
FRONT PANEL			
1.Control functions			Multiple options with 2 Encoders
			Vout/lout/Power Limit manual adjust
			OVP/UVL/UVP manual adjust
			Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC
			Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.
<u> </u>			Output ON/OFF. Front Panel Lock.
			Communication Functions - Selection of Baud Rate, Address, IP and communication language.
			Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming
			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.
2.Display			Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.
			lout: 4 digits, accuracy: 0.2% of rated output current +/-1 count.
3.Front Panel Buttons Indications			OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.
4. Front Panel Display Indications			Voltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote (communication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.
ENVIRONMENTAL CONDITIONS			
1.Operating temperature			0~50°C, 100% load.
2.Storage temperature			-30~85°C
3.Operating humidity		%	20~90% RH (no condensation).
4.Storage humidity		%	10~95% RH (no condensation).
5.Altitude (*17)			Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).
			operating, 100001 (500011), output current detaining 2.76 10011 to detaining 1.67 10011 above 200011. Not operating, 1000011 (1200011).
MECHANICAL			
1.Cooling			Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear
2.Weight		kg	2.7kW/3.4kW - Less than 6.25kg. 5kW - Less than 7.5kg.
3.Dimensions (WxHxD)		mm	W: 423, H: 43.6, D: 441.5 (Without busbars and busbars cover), W: 423, H: 43.6, D: 553.2 (Including busbars and busbars cover) (Refer to Outline drawing).
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1
5.Shock			Less than 20G, half sine, 11mSec. Unit is unpacked.
SAFETY/EMC			
1.Applicable standards:	Safety		UL61010-1, CSA22.2 No.61010-1, IEC61010-1, EN61010-1.
1.1. Interface classification	,		Vout≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, J8 (sense) & J9 (communication options) are Non Hazardous. 60≤Vout≤600V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous.
1.2 Withstand voltage			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): 4242VDC 1min, Output & J8 (sense) - J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 850VDC 1min. Output & J8 (sense) - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min. 100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min.="" 1min.<="" 2500vdc="" 2835vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" –=""></vout≤600v>
			100Mohm at 25°C, 70%RH. Output to Ground 500VDC
1.3 Insulation resistance			100Moninal 25°C, 70%km. Output to Ground 500VDC
1.3 Insulation resistance 2.Conducted emmision			IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A.

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

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

 NOTES:

 1. Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
 2. Minimum current is guaranteed to maximum 0.2% of rated output current.
 3. GSKW: Derate SA/1"C above 40"C.
 3. 4. For cases where conformance to various safety standards (UL, IEC, etc.....) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
 4. For cases where conformance to various safety standards (UL, IEC, etc.....) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
 5. 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
 6. Not including EMI filter inrush current, Ises than 0.2 mSec.
 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-913IC (1:1) probe. For 200~600V model: Measured with 100:1 probe.
 10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 11: From 190% to 10% of Rated Output Voltage.
 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.
 13: For load voltage change, equal to the unit voltage rating, constant input voltage.
 14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the r

GENESYS[™] 7.5kW SERIES SPECIFICATIONS

OUTPUT RATING	G	20-375	30-250	40-188	60-125	80-94	100-75	150-50	200-37.5	300-25	600-12.5	1000-7.5	1500-5
Development Priority		Α	B	Α	В	В	Α	Α	В	B	A	В	Α
1.Rated output voltage(*1)	V	20	30	40	60	80	100	150	200	300	600	1000	1500
2.Rated output current (*2)	Α	375	250	188	125	94	75	50	37.5	25	12.5	7.5	5
3.Rated output power	W	7500	7500	7520	7500	7520	7500	7500	7500	7500	7500	7500	7500
INPUT CHARACTERISTICS	٧	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Input voltage/freq. 3 phase, 3 wire+ground (*4)		_		170~265Va 342~528Va			0/230Vac). 0/400/415/4	40/460/480	Vac).				
2.Maximum Input current at 100% load 3-Phase, 200V models: 3-Phase, 480V models:		25.5A @ 20 13.5A @ 38											
3.Power Factor (Typ.)		0.94 @ 200/	/380Vac, rat	ed output p	ower.								
4.Efficiency (Typ.) (*5) (*3)	%	91	**	91	**	**	91	91	**	**	92	**	92
5.Inrush current (*6)	Α	Less than 6	5A.										
CONSTANT VOLTAGE MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)		+	ted output										
2.Max. Load regulation (*8)				voltage +5n									
3.Ripple and noise (p-p, 20MHz) (*9)	mV	80	**	80	**	**	90	150	**	**	450	**	1300
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	10	**	8	**	**	15	20	**	**	100	**	500
5.Temperature coefficient							tes warm-up						
6.Temperature stability 7.Warm-up drift		•					ites warm-u inutes follo			temperati	ire.		
8.Remote sense compensation/wire (*10)	V	2	5	5	5 5	5	5	5	5	5	5	5	5
9.Up-prog. response time (*11)	mS	30	**	30	**	**	50	50	**	**	100	**	200
Full load (*11)	mS	50	**	80	**	**	100	100	**	**	600	**	400
10.Down-prog. response time No load (*12)		600	**	1000	**	**	1500	2500	**	**	3000	**	3000
·						% of its rate	d output fo	r a load cha	nge 10~90	% of rated o	utput curre	nt.	
11.Transient response time		Output set Less than 1	point: 10~1 mS for mod	00%, Local lels up to an	sense. Id including	100V. 2mS	for models	above 100\	<i>'</i> .				
12.Start up delay		Less than 5				,							
13.Hold-up time		-	al. Rated out	put power.									
CONSTANT CURRENT MODE	V	20	30	40	60	80	100	150	200	300	600	1000	1500
1.Max. Line regulation (*7)			ted output				100	150	200	300	000	1000	1300
2.Max. Load regulation (*13)		1	ted output										
3.Ripple r.m.s. 5Hz~1MHz (*14)	mA	≤900	**	≤300	**	**	≤70	≤45	**	**	≤14	**	≤5
		_	models: 100		m rated ou	tout curren	t, following		warm-up.				
4.Temperature coefficient	PPM/°C						nt, following						
5.Temperature stability		0.01% of ra	ted lout ove	er 8hrs. inte	rval followii	ng 30 minut	tes warm-up	. Constant	line, load &	temperatu	re.		
		20V~100V i	models: Les	s than +/-0.	25% of rate	d output cu	rrent over 3	0 minutes f	ollowing po	ower on.			
6.Warm-up drift		150V~1500	V models: L	ess than +/-	0.15% of ra	ted output	current over	30 minute	s following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATED	EDOM T	HE OLITBUIT	Γ)										
1.Vout voltage programming				V usar sala	ctable Acci	iracy and lie	nearity: +/-0	15% of rate	ad Vout				
2.lout voltage programming (*15)							nearity: +/-0						
3.Vout resistor programming							nd linearity						
4.lout resistor programming (*15)		1					nd linearity						
5.Output voltage monitor		0~5V or 0~	10V, user se	lectable. Ac	curacy: +/-	0.5% of rate	d Vout.						
6.Output current monitor (*15)		0~5V or 0~	10V, user se	lectable. Ac	curacy: +/-	0.5% of rate	d lout.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT	T)												
1.Power supply OK #1 signal		Power supi	olv output r	nonitor. Op	en collecto	r. Output Or	n: On. Outpu	ut Off: Off. I	Maximum V	oltage: 30V	Maximum :	Sink Current	t: 10mA.
2.CV/CC signal							Off. Maximu						
3.LOCAL/REMOTE Analog control		Enable/Dis	able analog	programm	ing control	by electrica	al signal or c	lry contact.	Remote: 0	~0.6V or sho	rt. Local: 2~	-30V or ope	n.
4.LOCAL/REMOTE Analog signal		Analog pro	gramming o	ontrol mon	itor signal. (Open collec	tor. Remote:	On. Local:	Off. Maximu	ım Voltage:	30V. Maximi	um Sink Cur	rent: 10mA
5.ENABLE/DISABLE signal							act. 0~0.6V						
6.INTERLOCK (ILC) control		•	-				act. Output						
7. Programmed signals							e 25V. Maxi			nA (shunted	by 27V zer	ier).	
8.TRIGGER IN / TRIGGER OUT signals		Maximum l	low level in high level ir oetween 2 p	put = 5V pc	= 0.8V. Min ositive edge	ımum high : trigger: tw	level input v = 10us min	roitage = 2. imum. Tr,Tf	⊃V. = 1us maxii	mum.			
9.DAISY_IN/SO control signal		,		~0.6V/2~30		ntact.							
10.DAISY_OUT/PS_OK #2 signal		4~5V = OK,	, 0V (500Ω ii	mpedance)	= Fail.								
FUNCTIONS AND FEATURES													
		Possible. U	p to 4 ident	ical units in	Master/Slav	ve mode. Re	fer to instru	iction manu	ual.				
1. Parallel operation		Possible. Tv	wo identica	units. Refe	r to instruct	ion manual							
Parallel operation Series operation													
2. Series operation 3. Daisy chain							ronize their						
Series operation Daisy chain Constant power control		Limits the	output pow	er to a prog	rammed va	lue. Prograi	mming via t	he commu	nication po				
2. Series operation 3. Daisy chain		Limits the o	output pow eries resista	er to a prog nce. Resista	rammed va ince range:	lue. Prograi 1~1000mΩ.		he commu	nication po				
Series operation Daisy chain Constant power control		Limits the c Emulates so Programm Programm	output pow eries resista able Outpu ing range: 0	er to a prog nce. Resista t rise and Ou .0001~999.	rammed va ince range: utput fall sle 99 V/mS. or	lue. Prograi 1~1000mΩ. ew rate. A/mS.	mming via t	he commu	nication po				
Series operation Daisy chain Constant power control Output resistance control		Limits the of Emulates so Programmi Programmi Profiles of the Control of the Cont	output pow eries resista able Outpu ing range: 0 ing via com up to 100 st	er to a prog nce. Resista t rise and Ou	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r	lue. Program 1~1000mΩ. ew rate. A/mS. ont panel. memory cell	mming via t Programmi	he commu	nication po				
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms		Emulates so Programmor Programmor Programmor Profiles of a Activation	output pow eries resista able Outpu ing range: 0 ing via com up to 100 st by commar	er to a prog nce. Resista t rise and Ou .0001~999. munication eps can be s id via comm	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. memory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont 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 (USB. LAN. R5232/485, Optional (*17) (*20) Interfaces)	 V	Limits the control of	eries resista able Outpu ing range: C ing via com up to 100 st by commar	er to a prog nce. Resista t rise and Ou .0001~999. munication eps can be s d via comm	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r	lue. Program 1~1000mΩ. ew rate. A/mS. ont panel. memory cell	mming via t Programmi	he commu	nication po			1000	1500
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16)	 V	Limits the continuous series of the continuous	eries resista able Outpu ing range: C ing via com up to 100 st by commar 30 ted output	er to a prog nce. Resista t rise and Ou .0001~999. munication eps can be s d via comm 40 voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont panel.	1000	1500
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R\$232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. lout programming accuracy (*15)	 V	Limits the continuous series of the continuous	output pow eries resista able Outpu ing range: 0 ing via com up to 100 st by commar 30 ted output ual output	er to a prog nce. Resista t rise and Ot .0001~999.9 munication eps can be s id via comm 40 voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont panel.	1000	1500
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. RS232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. Iout programming accuracy (*15) 3. Yout programming resolution	 V	Limits the continuous series of the continuous	output poweries resista able Outpu ing range: 0 ing via com up to 100 st by commar 30 ted output val output of	er to a prog nce. Resista t rise and Ot .0001~999. munication eps can be sid via comm 40 voltage. current +0.2 t voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont panel.	1000	1500
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. Iout programming resolution 4. Iout programming resolution	 V	Limits the company of	output poweries resistated output output ing range: Commar ing range: Commar ing range	er to a prog nce. Resista t rise and Ou .0001~999. munication eps can be s id via comm 40 voltage. current +0.2 t voltage. t current.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont panel.	1000	1500
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB. LAN. R5232/485, Optional (*17) (*20) Interfaces) 1. Yout programming accuracy (*16) 2. lout programming resolution 4. lout programming resolution 5. Vout readback accuracy	 V	Limits the companies of	output poweries resistate able Output ing range: Coing via comup to 100 st by commar 30 ted output ual output orated output ated output ted output areas able to see in the coing output ted output in the coing of the coing output ted output te	er to a prog nce. Resista t rise and Ot .0001~999. munication eps can be sid via comm 40 voltage. current +0.2 t voltage. t current. voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont panel.	1000	1500
2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional (*17) (*20) Interfaces) 1. Vout programming accuracy (*16) 2. Iout programming resolution 4. Iout programming resolution	V	Limits the companies of	output poweries resistated output output ing range: Commar ing range: Commar ing range	er to a prog nce. Resista t rise and Ot .0001~999. munication eps can be sid via comm 40 voltage. current +0.2 t voltage. t current. voltage.	rammed va ince range: utput fall sle 99 V/mS. or ports or fro stored in 4 r nunication p	lue. Prograi 1~1000mΩ. ew rate. A/mS. ont panel. nemory cell ports or fror	mming via t Programmi Is. nt panel.	he commu ing via com	nication poi munication	ports or fro	ont panel.	1000	1500

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-down when power supply changes mode from CV or Power Limit to CC mode or from CC or Power Limit to CV mode. User preset Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication. Output shut-down. Reset by AC input recycle in autostart mode, by Power Switch, by OUTPUT button, by rear panel or by communication.														
2.Over-voltage protection (OVP)																	
3.Over-voltage programming ra		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	5~1653.7			
4.Over-voltage programming ac 5.Output under voltage limit (U'			+/-1% of rat			limit Door	at annly in		rammina Dr	cat by frant		mmunication	- nort				
6.Over temperature protection	VL)					ry by autost		analog progi	ramming. Pre	eset by front	panel or col	nmunicatioi	i port.				
7.Output under voltage protect	ion (UVP)		Prevents ad	justment of	Vout below I	imit. P.S out	put turns Of	f during und h, by OUTPU			by commu	nication.					
FRONT PANEL																	
1.Control functions			Multiple op	tions with 2	Encoders												
1.control functions						t							,				
				out/lout/Power Limit manual adjust VP/UVL/UVP manual adjust													
			Protection Functions - OVP, UVL, UVP, Foldback, OCL, ENA, ILC														
			Communication Functions - Selection of LAN, IEEE, RS232, RS485, USB or Optional communication interface.														
			Output ON/OFF, Front Panel Lock.														
				Communication Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection Voltage/resistive programming, 5V/10V, 5K/10K programming													
			Analog Control Functions - Selection voltage/resistive programming, 59/10V, 5K/10K programming Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V.														
2.Display			Analog Monitor Functions - Selection of Voltage/Current Monitoring 5V/10V. Vout: 4 digits, accuracy: 0.05% of rated output voltage +/-1 count.														
3. Front Panel Buttons Indication	ns		OUTPUT ON	, ALARM, PR	EVIEW, FINE	COMMUNIC	CATION, PRO	TECTION,CO	NFIGURATIO	N, SYSTEM, S	EQUENCER						
4. Front Panel Display Indication	ns		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 CONDITION:	5																
1.Operating temperature			0~50°C, 100	% load													
2.Storage temperature			-30~85°C														
3.Operating humidity			1	20~90% RH (no condensation).													
4.Storage humidity	%																
5.Altitude (*17)			10~95% RH (no condensation). Operating: 10000ft (3000m), output current derating 2%/100m or Ta derating 1°C/100m above 2000m. Non operating: 40000ft (12000m).														
MECHANICAL																	
1.Cooling			Forced air c	ooling by int	ernal fans. A	irflow direct	tion: From fr	ont panel to	nower suppl	v rear							
2.Weight		kg	Less than 8.		CITIAI TATIS. 71	iiiiow direct		one paner to	power supp	y reur.							
3.Dimensions (WxHxD)	mm	W: 423, H: 4	3.6, D: 486.5	(Without bu (Including b	sbars and buusbars and b	usbars cover), r). Refer to O	utline drawii	ng.								
4.Vibration			MIL-810G, method 514.6, Procedure I, test condition Annex C - 2.1.3.1														
5.Shock			Less than 20G, half sine, 11mS. Unit is unpacked.														
SAFETY/EMC																	
1.Applicable standards:	Safety		III 61010-1	-SΔ22.2 No.	61010-1 IFC6	51010-1, EN61	1010-1										
1.Applicable stalldards.	Jaiety		_					J9 (commun	ication ontic	ns) are Non I	Hazardous						
1.1. Interface classification								J1, J2, J3, J4, J				s) are Non H	azardous				
			Vout≤50V N		- Output &			5, J6, J7 & J9 (izardous.				
			60V≤Vout≤ Output & J8	00V Models	:: Input – Out J2, J3, J4, J5,	put & J8 (ser J6, J7 & J9 (c	nse), J1, J2, J ommunicat	3, J4, J5, J6, J7 on options):	7 & J9 (comm 850VDC 1mi	unication op n, Output & J	stions): 4242 8 (sense) - 0	VDC 1min, iround: 1500	VDC 1min,				
1.2 Withstand voltage			Output & J8	100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" 1275vdc="" 1min,="" 1min.="" 1min.<="" 2500vdc="" 2835vdc="" 4242vdc="" and="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" −=""></vout≤600v>													
			Output & J8		J2, J3, J4, J5,			2, J3, J4, J5, J on options):									
1.3.Isolation resistance						Ground 50											
2.EMC standards (*18)			IEC/EN6120	4-3 Industria	l environme	nt, Annex H	table H.1 , F	CC Part 15-A,	VCCI-A.								
2.1.Conducted emission			IEC/EN6120	4-3 Industria	l environme	nt, Annex H	table H.3 ar	nd H4, FCC Pa	art 15-A, VCC	I-A							
2.2.Radiated emission			IEC/EN6120	4-3 Industria	l environme	nt											

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

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

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

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

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

 *7: 3-Phase 200V models: 70~265Vac, 3-Phase 480V models: 342~528Vac. Constant load.

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

 *9: For 10V~150V models: Measured with JETIA RC-913TC (1:1) probe. For 200~1500V models: Measured with 100:1 probe.

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

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

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

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

 *14: For 10V model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. B.W SHz~1MHz.

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

 *16: Measured at the sensing point.

- *16: Measured at the sensing point.
 *17 Max. ambient temperature for IEEE is 40°C.
 *18: Signal and control ports interface cables length: Less than 3m, DC output power port cables length: Less than 30m.

GENESYS[™] **GSP10kW SERIES SPECIFICATIONS**

A 100 20 30 40 50 50 80 100 150 300	GSP 10-1000 20-500 30-340 40-250 50-200 60-170 80-130 100-100 150-68 200-50 300-34 400-	500-20 60	500-17												
2 2 2 2 2 2 2 2 2 2			600												
NPUT CHARACTERISTICS			17												
Phase_2007 models 170-250% c, 47-581 Covers_2007390c1	kW 10 10 10.2 10 10 10.2 10.4 10 10.2 10 10.2 10.4	10 1	10.2												
Phase_2007 models 170-250% c, 47-581 Covers_2007390c1	W 10 20 30 40 50 60 80 100 150 200 300 400	500 6	600												
Sprakes, 400m models		300 0	000												
3-Phase, 490/models															
2. Maximum input current at 13 Phases, 2009 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 18.4 % 3 930/sc 11.5 Phases (4007 models: 3 Phases, 4007 models: 18.4 % 3 930/sc 11.5 Phases (4007 models: 3 Phases, 4007 models: 3 Phases, 4007 models: 18.4 % 3 930/sc 11.5 Phases (1007 models: 3 Phases) (1007 models: 3 P															
100% load	3-Phase, 200V models: 35A @ 200Vac														
3. Phase, 460V models 15.4A & 3. Silvar. 15.4	t 3-Phase, 400V models: 18.4A @ 380Vac														
3Power Factor (Typ) 91 91 91 91 91 91 91 9															
Struction Current (**)															
Simple and most by Simple	% 89 (*21) 90 91 91 91 91 91 91 91 91 91 91 92 92	91	92												
COMSTAIN TOUTNEE MODE	A Less than 100A	-													
Max. Lude regulation (**)	% <5%														
Max. Line regulation (??)	W 10 20 20 40 50 60 90 100 150 200 400	500 6	600												
2 2 2 2 5 7 7 7 7 7 7 7 7 7		300 6	000												
SARpole rams. 51: MR ST 75 75 75 75 75 75 75 7															
A Ripple run. 5 11 12 12 12 12 13 15 20 45 60 80		450 4	480												
Stemperature coefficient			100												
Comparature stability		00	100												
Name Series Ser															
8.8emote sense compensation/wire (*10)															
9.Up prog, Response time		5	5												
1.1. 1.1.			100												
10.10m/progresponse time			200												
Times for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current.	e'		3000												
10-100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.	Time for output voltage to recover within 0.5% of its rated output for a lead change 10, 00% of rated output current														
Description	ms limited of output voltage to recover within 0.5% of its faced output for a doad change 10~90% of faced output current 10~100%. Local sense, Less than 1ms, for models up to and including 100V, 2ms, for models above 100V.	Jutput set-poi	JIIIL:												
CONSTANT CURRENT MODE LiMax. Line regulation (**)															
Max. Line regulation (*7)															
2.Max. Load regulation (*13)															
2.Ripple:m.s.@ 10% rated voltage. B.W 5Hz-1MHz. (TL45') m.h 1500 1200 600 300 200 150 100 70 45 45 15 15 15 15 15 15															
A															
DV-100V 100PPM/C From rated output current, following 30 minutes warm-up.			10												
Side-parture coefficient PMINC SIGNU-GOOV - TOPPM/NC from rated output current, following 30 minutes warm-up.		8	6												
Source S	PPM // ·														
	150V~600V 70PPM/°C from rated output current, following 30 minutes warm-up.														
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)															
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1. Yout voltage programming		·													
1. Nout voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.	150V~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.														
2. Out voltage programming (*15)	ND MONITORING (ISOLATED FROM THE OUTPUT)														
3.Vout resistor programming	0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.														
4.Iout resistor programming (*15) 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout. 5.Output voltage monitor 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Output current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 5.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Ioutput current monitor (*15) 0-5V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Ioutput current monitor (*15) 0-6V or 0-10V, user selectable. Accuracy: +/-0.5%. Of rated Vout. 6.Ioutput current monitor (*15) 0-6V or 0-10V, Maximum Voltage: 30V, Maximum Sink Current 100mA (5hunted by 27V zener Voltage: 0-10V or 10V contact. Remote: 00.6V or short, 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable logic. 6.Internacy or open. 0-10V or short 230V or open. User selectable. Accuracy: +/-0.5% o	(*15) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.														
5.Output voltage monitor															
Signal Sand Control (*15) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.	(*15) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.														
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal	0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated Vout.														
1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. LOCAL/REMOTE Analog signal 6. LOCAL/REMOTE Analog signal 7. Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30 or open. User selectable logic. 8. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Series operation 9. Days value 9. Power supply output monitor. Open collector. Output Off: Off. Maximum Sink Current: 10m. A. 1. LOCAL/REMOTE Analog signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V, shaximum 5. Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short. Local: 2~30V or open. User selectable logic. 9. INTERLOCK (ILC) control 9. Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. User selectable logic. 9. Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener Maximum lotted per selectable logic. 9. DAISY_IN/SO control signal 9. DAISY_IN/SO control signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. DAISY_OUT/PS_OK #2 signal 9. Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 9. Series operation 9. Consult with Factory 9. Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory 9. Consult with Factory Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Consult with Factory Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Co	15) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.														
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4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum 5. ENABLE/DISABLE signal Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic. 6. INTERLOCK (ILC) control Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open. 7. Programmed signals signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener 8. TRIGGER IN / TRIGGER OUT signals Two open drain programmable signals. Maximum high level input voltage = 2.5V, Maximum high level in edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal By electrical Voltage: 0~0.6V/2~30V or dry contact. 10. DAISY_OUT/PS_OK #2 signal 4~5V=OK, 0V (500ohm impedance)=Fail FUNCTIONS AND FEATURES Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 2. Series operation Consult with Factory 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Limits the output power to a programmed value. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel Programmable Output rise and Output fall slew rate. Programming via the communication ports or the front panel Programmable Output rise and Output fall slew rate. Pro		/or onco													
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7. Programmed signals															
8. TRIGGER IN / TRIGGER OUT signals —— Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level in edge trigger: tw=10us minimum. Tr, Tf=1us Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal —— By electrical Voltage: 0~0.6V/2~30V or dry contact. 10. DAISY_OUT/PS_OK #2 signal —— 4~5V=OK, 0V (500ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation —— Possible. Up to four (4) identical GSP units. For more power please consult with Factory. 2. Series operation —— Consult with Factory in the foot panel. 3. Daisy chain —— Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control —— Limits the output power to a proggrammed value. Programming via the communication ports or the front panel. 5. Output resistance control —— Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control —— Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms —— Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the PROGRAMMING AND READBACK (USB, LAN, V 10 20 20 40 50 60 80 100 150 200 200 400 50 200 400 50 200 400 50 200 400 50 50 400 50 50 50 50 50 50 50 50 50 50 50 50 5															
edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal	Administration of the second o		sitiva												
9. DAISY_IN/SO control signal	signals edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.	par – ov hosi	SICIVE												
Total Content of the communication ports or the front panel.															
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms 7. Arbitrary waveforms 7. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the Front panel. 7. Arbitrary MINIOR AND READBACK (USB, LAN) 7. Programming And Readback (USB, LAN) 7. Programming And Readback (USB, LAN) 7. Application of the front panel of the front															
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6. Slew rate control 7. Arbitrary waveforms															
communication ports or the front panel. 7. Arbitrary waveforms															
7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or b	Programmable Uutput rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Prog	nming via the	5												
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PROGRAMMING AND READBACK (USB, LAN, V 10 20 20 40 50 60 90 100 150 200 400															
DC323/495 Ontional IEEE (*10)(*30) Interfaces) V IU 20 30 40 30 80 100 150 200 300 400	BACK (USB, LAN, V 10 20 30 40 50 60 80 100 150 200 300 400	500 6	600												
R5232/485, Optional IEEE (*19)(*20) Interfaces)	101(*30) Interfaces 1 10 20 30 TO 30 00 100 130 200 300 400														
	19)(*20) Interfaces) V 10 20 30 40 30 00 80 100 130 200 300 400														
	119)(*20) Interfaces)														
	19 (*20) Interfaces														
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,	199(*20) Interfaces														
	199(*20) Interfaces														
	19 (*20) Interfaces	0.00324	.0022/												
8.lout readback resolution (of rated output current))	19 (*20) Interfaces		0.002%												

GENESYS[™] **GSP15kW SERIES SPECIFICATIONS**

	OUTPUT RATING		GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5	
2.588 2.589 2.59																		
MIRIT CARACTERITICS	2.Rated output current (*2)																	
	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	
Private voltage Private Sur Private Control of Private Sur Priva	INPUT CHARACTERISTICS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
Prince Color Prince Prince Color Prince Pri	0										100	150	200	300	100	300	000	
Maintainer liping Current at 1 1 1 1 1 1 1 2 2 2	1.Input voltage/freg. 3 phase, 3 wire	+ Ground (*4)																
Advanced from Pine Pines 4007 models Pin																		
1906 bod																		
April Property P	100% load																	
Milester September Septe	3-	Phase, 480V models:																
Comparison Com																		
Mar. Liver regulation (**)	7 - 71					91	91	91	91	91	91	91	91	92	92	91	92	
CORDITATION VICENSE MODE V					150A													
Max. Later graphation (T7)	o.Ac line priase imbalance			C 370														
2.Max. Load regulation (**) 9	CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
Stigge Find and Total (ps. pc. 2009Hz) (Ps. pc. pc. pc. pc. pc. pc. pc. pc. pc. pc	1.Max. Line regulation (*7)			0.01% of ra	ated outp	ut voltage												
Ripple tank Sept Miles Sept	2.Max. Load regulation (*8)			0.01% of ra	ated outp	ut voltage	+5mV											
Simplements coefficient FMPMC SiPMAC Form rated output voltage, following 30 minutes warm-up. Extraction Control of State	3.Ripple and noise (p-p, 20MHz) (*9)		mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480	
College Coll	4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100	
Waterweight Company	5.Temperature coefficient		PPM/°C	50PPM/°C	from rate	d output v	oltage, fo	llowing 3	0 minutes	warm-up								
Befindes enters compensation/wive "10" V 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6.Temperature stability			0.01% of ra	ated Vout	over 8hrs	interval fo	ollowing 3	0 minutes	warm-up	. Constan	t line, load	l & temp.					
Subpring Response time ("11)	7. Warm-up drift			Less than (0.05% of r	ated outp	ut voltage	+2mV ov	er 30 minu	ites follow	ing powe	r on.						
Molard M	8.Remote sense compensation/wire	(*10)	٧	2		-	-		5	5	5	5	5	5	_		5	
Internative reporter time ms 300 600 800 900 900 800 100 120 900 200 200 200 300 400 400 300 300 1.7 mile for output ordering to recover within 5% of first rated output carriers. 10-10/16, Local series. Less than 1ms, for models up to and including 10/07. ms, for models above 10/07. 10-10/16, Local series. Less than 1ms, for models up to and including 10/07. ms, for models above 10/07. 10-10/16, Local series. Less than 1ms, for models up to and including 10/07. ms, for models above 10/07. 10-10/16, Local series. Less than 1ms, for models up to and including 10/07. 10-10/16, Local series. Less than 1ms, for models up to and including 10/07. 10-10/07. 10	9.Up-prog. Response time (*11)		mS						_								100	
1.1 Transient response time	10 Down-prog response time:	Full load (*11)	mS						-					-		200	-	
10-100% 10-100%	10.00WII-prog.iesponse tille:	No load (*12)	mS															
10-100- Lock Service Lock Servi	11.Transient response time		mS	Time for o	utput volt	age to red	over with	in 0.5% o	fits rated	output for	a load ch	ange 10~	90% of rat	ted outpu	t current.	Output se	t-point:	
CONSTANT CURRENT MODE	· ·					se. Less th	an 1m5, fo	or models	up to and	including	100V. 2m	S, for mod	iels above	e 100V.				
MAX. List regulation (*13)	12Start up delay		Sec	Less than 7	/ Sec													
Amax Load regulation (*13)	CONSTANT CURRENT MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
All	1.Max. Line regulation (*7)			0.05% of ra	ated outp	ut current												
All pole PPMC PPM	2.Max. Load regulation (*13)			0.08% of ra	ated outp	ut current												
100-100	3.Ripple r.m.s. @ 10% rated voltage	B.W 5Hz~1MHz. (*14)	mA	2000	1200	600	300	250	180	100	70	45	45	15	15	12	10	
Sign-Benghater Sability	4.Ripple r.m.s. @ 100% rated voltage. B.\	N 5Hz~1MHz. (TA 25°C)	mA	1200	700	300	150	130	90	60	35	23	23	7.5	7.5	8	6	
Size-Solv - ToPPM-K from rate do suptru current, following 30 munites warm-up. Constant line, load & temperature.	5 Temperature coefficient		DDM/°C	10V~100V	100PP	M/°C from	rated out	tput curre	nt, follow	ing 30 mir	utes warr	n-up.						
Warm-up drift	5.Temperature coefficient		FFIVI/ C	150V~600	V 70PPN	l/°C from I	rated outp	ut curren	t, followir	ng 30 minu	ıtes warm	-up.						
Warm-uportit	6.Temperature stability			0.01% of ra	ated lout o	over 8hrs.	interval fo	llowing 3	0 minutes	warm-up	. Constant	t line, loac	& tempe	rature.				
Institution	7 Warm-up drift			10V~100V	model: Le	ss than +/	-0.25% of	rated out	put curre	nt over 30	minutes f	ollowing	power on.					
	7. Wallin-up unit			150V~600	V: Less tha	n +/-0.159	% of rated	output c	urrent ove	r 30 minu	tes follow	ing power	on.					
	ANALOG PROGRAMMING AND MOI	NITORING (ISOLATED	FROMT	HE OUTPU	T)													
0-100%, 0-50 vo r0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.						10V user	selectable	Accurac	v and line	arity: +/-0	15% of rat	ed Vout						
0-100%, 0-5700kohm full scale, user selectable. Accuracy and linearity; +/-0.5% of rated vout.																		
Alout resistor programming (*15)													Vout.					
Couptu current monitor ("123) Couptur Current monitor ("15) ("23) Couptur Current monitor ("15) ("25) Couptur Current monitor ("15) ("25)																		
Signal S											,							
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT) 1. Power supply OK #1 signal	6.Output current monitor (*15) (*23)																	
1. Power supply OK #1 signal	SIGNAL S AND CONTROL S (ISOLATE	D EDOM THE OUTDUT																
C.V/C.K. Monitor. Open collector. C.C. mode: Off. C.V. mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.		D FROM THE OUTPUT		Dausar sun	nlu autau	t monitor	Onon col	llastar O	itmiit Oni	On Outnu	+ Off. Off	Mavimum	Valtaga	20\/ May	marina Cinla	Curront	10m A	
Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0 - 0.6V or short. Local: 2 - 30V or open.																current:	IUIIIA.	
4. LOCAL/REMOTE Analog signal																/ or open		
5. ENABLE/DISABLE Signal																		
6. INTERLOCK (ILC) control	3 3														iic. iviliA.			
Two open drain programmable signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)																		
Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=10us minimum. Tr;I=us Maximum, Mind elay between 2 pulses 1ms. 9. DAISY_IN/50 control signal																		
tw=lous minimum. Tr,T=ius Maximum, Min delay between 2 pulses 1ms. by electrical Voltage: 0~0.6V/2~30V or dry contact.																sitive eda	e trigger:	
10. DAISY_OUT/PS_OK #2 signal	8. I RIGGER IN / TRIGGER OUT signals											,			. J. po.		99011	
FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Consult with Factory 4. Consult with Factory 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms 7. Arbitrary waveforms 7. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 7. Arbitrary mayeforms 7. Output resistance control 8. Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 8. Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 8. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 8. PROGRAMMING AND READBACK (USB, LAN, RES232/485, Optional IEEE (*19)(*20) Interfaces) 8. Output gramming accuracy (*16) 9. Output gramming accuracy (*15) 9. Output gramming resolution 9. Output gram	9. DAISY_IN/SO control signal			By electric	al Voltage	e: 0~0.6V/2	2~30V or c	dry contac	t.									
1. Parallel operation	10. DAISY_OUT/PS_OK #2 signal		4~5V=OK,	0V (500ol	hm imped	ance)=Fai	il											
1. Parallel operation	FUNCTIONS AND FEATURES																	
2. Series operation				Possible I	lp to four	(4) identic	al GSP un	its. For me	ore power	please co	nsult with	Factory						
3. Daisy chain								21 1110		,						-		
4. Constant power control							ted in Da	isy chain t	o synchro	nize their	turn-on a	nd turn-0	ff.			-		
	4. Constant power control													the front	oanel.			
	·															el.	-	
Communication ports or the front panel.	·			Programm	able Out	out rise an	d Output	fall slew r									the	
PROGRAMMING AND READBACK (USB, LAN, KS232/485, Optional IEEE (*19)(*20) Interfaces) 1. Vout programming accuracy (*16) 2. Iout programming accuracy (*15) 3. Vout programming accuracy (*15) 3. Vout programming resolution 4. O.02% of rated output voltage 4. Iout programming resolution 5. Vout readback accuracy 4. O.05% of rated output current 5. Vout readback accuracy 5. O.05% of rated output current 5. Vout readback accuracy 6. Iout readback accuracy 7. Vout readback resolution (of rated output voltage) 8. O.01% 0.06% 0.004% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%				communic	ation por	ts or the f	ront pane	l.										
RS232/485, Optional IEEE (*19)(*20) Interfaces) v 10 20 30 40 50 00 80 100 130 200 300 400 300 000 1./out programming accuracy (*16) 0.05% of rated output voltage 2.lout programming accuracy (*15) 0.3% of rated output voltage 4.lout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5./out readback accuracy (*15) 0.2% of rated output current 7./out readback accuracy (*15) 0.2% of rated output current 7./out readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	7. Arbitrary waveforms			Profiles of	up to 100	steps can	be stored	l in 4 men	nory cells.	Activation	by comm	nand via tl	ne commu	unication	ports or b	y the fron	t panel.	
RS232/485, Optional IEEE (*19)(*20) Interfaces) v 10 20 30 40 50 00 80 100 130 200 300 400 300 000 1./out programming accuracy (*16) 0.05% of rated output voltage 2.lout programming accuracy (*15) 0.3% of rated output voltage 4.lout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5./out readback accuracy (*15) 0.2% of rated output current 7./out readback accuracy (*15) 0.2% of rated output current 7./out readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	PROGRAMMING AND READBACK (U	JSB, LAN,	V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
2.lout programming accuracy (*15) 0.3% of rated output current 3.Yout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5.Yout readback accuracy (*15) 0.2% of rated output current 7.Yout readback resolution (of rated output voltage) 0.006% 0.006% 0.006% 0.003% 0.003% 0.002% 0.001% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	RS232/485, Optional IEEE (*19)(*20) Interfaces)						50	80	60	100	150	200	300	400	500	600	
3.Vout programming resolution 0.002% of rated output voltage 4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy 0.5% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) 0.01% 0.006% 0.004% 0.003% 0.003% 0.002% 0.011% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002% 7.Vout readback resolution (of rated output voltage) 0.002% of rated output voltage	1.Vout programming accuracy (*16)						!											
4.lout programming resolution 0.002% of rated output current 5.Vout readback accuracy (*15) 0.2% of rated output voltage 0.05% of rated output voltage 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	2.lout programming accuracy (*15)																	
5.Vout readback accuracy 0.05% of rated output voltage 6.lout readback accuracy (*15) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	3.Vout programming resolution																	
6.lout readback accuracy (*15) 0.2% of rated output vurrent 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.003% 0.003% 0.002% 0.011% 0.007% 0.007% 0.005% 0.004% 0.003% 0.003% 0.002%	4.lout programming resolution																	
7.Vout readback resolution (of rated output voltage)	5.Vout readback accuracy						2											
	6.lout readback accuracy (*15)																	
8.lout readback resolution (of rated output current)) % 0.012% 0.003% 0.003% 0.004% 0.004% 0.005% 0.006% 0.008% 0.012% 0.002% 0.003% 0.003% 0.003% 0.005%							_		_				_	_	_		_	
	8.Iout readback resolution (of rated	output current))	%	0.012%	0.003%	0.003%	0.004%	0.004%	0.005%	0.006%	0.008%	0.012%	0.002%	0.003%	0.003%	0.003%	0.005%	

GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

Footback protection Use presentable, Receipt by King put recycle in autostant mode, by prove Works, by Curry by respentable protection (CVP) Use presentable, Receipt by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by commissation, and other works are protected by the protected in autostant mode, by OUTPUT butto, by rear panel or by commissation, and other works are protected by Commissation (CVP) Use of the protected by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by count microscopic panel (CVP) Use of the protected by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by count panel (CVP) Use of the protected by King put recycle in autostant mode, by OUTPUT butto, by rear panel or by Commissation, and the protection of the protec	PROTECTIVE FUNCTIONS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600	
20per voltage protection (XVP)	1.Foldback protection			Output sl User pres	nut-down etable. Re	when pov	wer supply	y changes ycle in aut	mode froi ostart mo	m CV or P de, by Po	ower Lim wer Switc	it to CC mo	de or fror UT butto	n CC or Po	wer Limit anel or b	to CV mod	e. ication.	
## A Cheevootage programming accuracy	2.Over-voltage protection (OVP)			_														
Soutput under voltage limit (UVL)	3.Over -voltage programming ran	nge	V	0.5~12	1~24	2~36	2~44.1	5~55.125	5~66.15	5~88.2	5~110.2	5 5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.5	
6. Over trepresenture protection 2. Output under voltage protection (UVP) 3. Output under voltage protection (UVP) 4. Output under voltage protection (UVP) 5. Output under voltage protection (UVP) 5. Output under voltage protection (UVP) 6. Output under voltage volta	4. Over-voltage programming acc	curacy		+/-1% of ı	ated outp	ut voltag	e											
2. Output under voltage limit (VIV)		L)	_							n analog	program	ming. Prese	et by fron	t panel or o	ommunio	ation port		
8. Output under voltage protection (UVP)			_						art mode.									
mode by Power Switch, by OUTPUT button, by year panel or by communication.	7. Output under voltage limit (UV	L)		Prevents	adjustme	nt of Vout	below lin	nit.										
Lontrol functions	8. Output under voltage protection (UVP)			Prevents mode, by	adjustmei Power Sw	nt of Vout ritch, by O	below lim UTPUT bu	nit. P.S out utton, by r	out turns (ear panel	Off during or by com	g under vo imunicati	oltage con ion.	dition. Re	set by AC i	nput recy	cle in autos	start	
	FRONT PANEL																	
	1.Control functions			Multiple	options w	th 2 Enco	ders											
### Tortection Functions - OVP, LVIL, IVP, Foldback, OCI, ENA, ILC ### Communication Functions - Selection of IAN Election of				Vout/lou	t/Power Li	mit manu	al adjust											
				OVP/UVL	/UVP man	ual adjust												
### Communication Functions - Selection of Baud Rate, Address, IP and communication language. ### Communication Functions - Selection of Natage Agreeting ### Communication Language. ### Analog Control Functions - Selection of Voltage/cerestive programming, SVI/DV, SK/10K programming. ### Analog Control Functions - Selection of Voltage/cerestive programming, SVI/DV, SK/10K programming. ### Analog Control Functions - Selection of Voltage/cerestive programming, SVI/DV, SK/10K programming. ### Analog Control Functions - Selection of Voltage/cerestive programming, SVI/DV, SK/10K programming. ### Work of Months of Address of Programming. ### Work of Months of Address of Programming. ### Work of Months of Address of Programming. ### Work o				Protectio	n Functio	ns - OVP, L	JVL,UVP, F	oldback, (CL, ENA,	ILC								
Communication Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection of Baud Rate, Address, IP and communication language. Analog Control Functions - Selection of Voltage-fixed recomming. SVI 10V, SX/10K programming Analog Monitor Functions - Selection of Voltage-fixed recomming. SVI 10V, SX/10K programming Brown Analog Monitor Functions - Selection of Voltage-fixed recomming. SVI 10V, SX/10K programming Brown Analog Monitor Functions - Selection of Voltage-fixed recomming. Brown Famel Bustions Indications				Commun	ication Fu	nctions - :	Selection	of LAN,IEE	E,RS232,R	S485,USE	or Optio	nal commu	inication i	interface.				
Analog Monitor Functions - Selection of Voltage (Current Monitoring SV10V).																		
2.Display Vout4 digits, accuracy. 20.5% of rated output voltage 4-1 count. Out4 digits, accuracy. 20.5% of rated output voltage 4-1 count. Out4 digits, accuracy. 20.5% of rated output userns 4-1 count. Out4 digits, accuracy. 20.5% of rated output userns 4-1 count. Out4 digits, accuracy. 20.5% of rated output userns 4-1 count. Out4 digits, accuracy. 20.5% of rated output userns 4-1 count. Out4 digits, accuracy. 20.5% of rated output userns 4-1 count. Out4 digits, accuracy. 20.5% of rated output userns 4-1 count. Out4 digits, accuracy. 20.5% of rated output voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback VI, Remote communication, Ingger, Load/Store Cell. Out4 digits, accuracy. 20.5% of Remove Ce																		
Interface Inte	201																	
3.Front Panel Buttons Indications	2.Display																	
4. Front Panel Display Indications											NI CONITI	CLIDATION	CVCTEM	CECHIENC	-D			
Communication, RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.	3.FIGHT Faller Buttons indications																	
1.Operating temperature	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.														
2.Storage temperature	ENVIRONMENTAL CONDITIONS																	
3. Operating humidity 96 20–99% RH (no condensation). 4. Storage humidity 96 10–99% RH (no condensation). 5. Altitude (*17)	1.Operating temperature	1.Operating temperature		0~50°C, 1	00% load													
3.Operating humidity	2.Storage temperature			-30~85°C														
4.Storage humidity			%	20~90%	RH (no cor	densatio	n).											
S.Altitude (*17)																		
1.Cooling Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear								rrent dera	ting 2%/10	00m or Ta	derating	1°C/100m	above 200	00m. Non o	perating:	40000ft (1	2000m).	
1.Cooling Forced air cooling by internal fans. Air flow direction: from Front panel to power supply rear	MECHANICAL																	
2.Weight GSP 10kW kg Less than 15.5kg. 3.Dimensions (WxHxD) GSP 10kW mm W-423, H-88, D-441.5 (Without busbars and busbars cover), W-423, H-88, D-441.5 (Without busbars and busbars cover, and strain relief) (Refer to Outline drawing). 2.Weight GSP 15kW kg Less than 23.5kg. 3.Dimensions (WxHxD) GSP 15kW mm W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, H-132.5, D-640 (Including busbars and busbars cover), W-423, W-423, H-132.5, D-641, Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 4.Vibration				Forced ai	r cooling b	ov interna	lfans Air	flow direc	tion: from	Front na	nel to nov	ver sunnly	rear					
3.Dimensions (WxHxD) GSP 10kW mm W: 423, H: 88, D: 441.5 (Without busbars and busbars cover), W: 423, H: 88, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 3.Dimensions (WxHxD) GSP 15kW kg Less than 23.5kg. 3.Dimensions (WxHxD) GSP 15kW mm W: 423, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 4.Vibration MIL-810G, method 514.6, Procedure, Lets condition Annex C - 2.1.3.1 5.Shock Less than 20G, half sine, 11mSec. Unit is unpacked. 5.AFETY/EMC 1.Applicable standards: Safety UL61010-1, CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1. 1.1. Interface classification Vouts50V Models: Output, J1, J2, J3, J4, J5, J6, J7, B. J9 (communication options) are Non Hazardous. 60×Outs50V Models: Output & J8 (sense) are hazardous, J1, J2, J3, J4, J5, J6, J7 & J9 (communication options) are Non Hazardous. Vouts50V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 1.2 Withstand voltage Withstand voltage Sense Voltas60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) Voltas60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) Voltas60V Models: Input - Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) Voltas60V Models: Input - Output & J8 (sense) Voltas60V Models: Input - Output & J8 (sense) Voltas60V Models: Input - Output & J8 (sense) Voltas60VDC 1min. 1.3 Insulation resistance GSP10kW/15kW: 60 Mohm at 25°C, 70%RH. Output to Ground 500VDC 2.Conducted emmision IEC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A.		GSP 10kW	ka			y micina	110113.7111	now direc		TTOTIC PUI	ici to pov	versuppry	icui					
3.Dimensions (WXHXD) 4.Vibration 4.Vibration 5.Shock 4.Vibration 5.Shock 5.Shock 6.SAFETY/EMC 1.Applicable standards: 1.Applicable standards: 1.Applicable standards: 1.1.Interface classification 7.CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1. 1.Interface classification 7.CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1. 1.Interface classification 8.Vout≤50V Models: Output, J1, J2, J3, J4, J5, J6, J7, & J9 (communication options) are Non Hazardous. 60≤Vout≤600V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤50VD V Models: Input – Output & J8 (sense), J1, J2, J3, J4, J5, J6, J7 & J9 (communication options): 4242VDC 1min, Output & J8 (sense) - Ground: 2805VDC 1min. 1.2 Withstand voltage 1.2 Withstand voltage 1.3 Insulation resistance 1.4 September 2. Conducted emmision 1.5 Insulation resistance 2. Conducted emmision 3. Radiated emission 4. EC/EN61204-3 Industrial environment, Annex H table H.1, FCC Part 15-A, VCCI-A. 3. Radiated emission 4. EC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A.						1.5 (Witho	ut hushar	s and hush	ars cover)									
3.Dimensions (WxHxD) GSP 15kW mm W: 423, H: 132.5, D: 441.5 (Without busbars and busbars cover), W: 423, H: 132.5, D: 640 (Including busbars and busbars cover, and strain relief) (Refer to Outline drawing). 4.Vibration				W: 423, H	l: 88, D: 64						relief) (Re	fer to Outli	ne drawin	ıg).				
S.P.	2.Weight	GSP 15kW	kg															
SAFETY/EMC	3.Dimensions (WxHxD)	GSP 15kW	mm								strain relie	ef) (Refer to	Outline	drawing).				
SAFETY/EMC 1.1. Interface classification Safety UL61010-1, CSA22.2 No.L61010-1, IECL61010-1, ENL61010-1.	4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, t	est condit	ion Anne	C - 2.1.3.	1							
1.1. Interface classification 1.2. Interface classification 1.3. Interface classification 1.4. Interface classification 1.5. Interface classification 1.6. Interface classification 1.6. Interface classification 1.7. Interface classification 1.8. Interface classification 1.9. Interface classification 1.0 Interface classificat	5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.									
1.1. Interface classification 1.2. Interface classification 1.3. Interface classification 1.4. Interface classification 1.5. Interface classification 1.6. Interface classification 1.6. Interface classification 1.7. Interface classification 1.8. Interface classification 1.9. Interface classification 1.0 Interface classificat	CATETY/EMC																	
1.1. Interface classification		Safety	T	LII 61010	1 CSA22 1	No I 610	10-1 IECL	1010-1 FN	II 61010-1									
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): 4242VDC 1min, Input - Ground: 2835VDC 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): 4242VDC 1min, 100V <vout≤600v &="" (communication="" (sense)="" (sense),="" -="" -<="" 100v<vout≤600v="" 1min.="" 2835vdc="" 4242vdc="" ground:="" input="" j1,="" j2,="" j3,="" j4,="" j5,="" j6,="" j7="" j8="" j9="" models:="" options):="" output="" td="" –=""><td></td><td>Jaiety</td><td></td><td>Vout≤50\</td><td>/ Models:</td><td>Output, J1</td><td>, J2, J3, J4</td><td>, J5, J6, J7,</td><td>J8 (sense)</td><td>& J9 (con</td><td>nmunicati</td><td>ion options</td><td>are Non</td><td>Hazardou</td><td>5.</td><td></td><td></td></vout≤600v>		Jaiety		Vout≤50\	/ Models:	Output, J1	, J2, J3, J4	, J5, J6, J7,	J8 (sense)	& J9 (con	nmunicati	ion options	are Non	Hazardou	5.			
Input - Ground: 2835VDC 1min.												•					us.	
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.				Input - G 60V≤Vou Output & Output & 100V <vo Output & Output & Input - G</vo 	round: 28 It≤100V M J8 (sens J8 (sens IN (sens) IN (sens IN (sens)	35VDC 1 flodels: Ir e) - J1, J2 e) - Grou Models: I e) - J1, J2 e) - Grou 35VDC 1	Imin. 1put – Ou 2, J3, J4, nd: 1500 1nput – O 2, J3, J4, nd: 2500 1min.	tput & J8 J5, J6, J7 VDC 1mir utput & J8 J5, J6, J7 VDC 1mir	(sense), (7 & J9 (co 1, Input - (1 (sense), 7 & J9 (co	J1, J2, J3 mmunica Ground: A J1, J2, J mmunica	3, J4, J5, ation opti 2835VDC 3, J4, J5, ation opti	J6, J7 & J ons): 850\ C 1min. J6, J7 and	9 (commod / DC 1mir	unication n. nmunicatio	nntions):	4242VDC	1min, OC 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			GSP10kW	/15kW: 60	Mohm at	25°C, 709	6RH. Outp	ut to Gro	und 500\	/DC							
				IEC/EN61	204-3 Indi	ustrial env	rironment	, Annex H	table H.1 ,	FCC Part	15-A, VC	CI-A.						
	3.Radiated emission			IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A.														
4.EMC compliance EMC(*18) IEC/EN61204-3 Industrial environment	4. EMC compliance	EMC(*18)		IEC/EN61	204-3 Ind	ıstrial env	rironment											

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

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

 "NOTES:

 11. Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.

 12. Minimum current is guaranteed to maximum 0.2% of rated output current.

 13. GSP 10kW: Derate 10A/1°C above 40°C. GSP 15kW: Derate 15A/1°C above 40°C.

 14. For cases where conformance to various safety standards (UL, IEC, etc....) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase 45: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.

 16. Not including BMI filter inrush current, Iess than 0.2mSec.

 17. 3-Phase 200V models: 170-265Vac, 3-Phase 400/ models: 342-460Vac, 3-Phase 480V models: 342-528Vac. Constant load.

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

 19. For 10V-150V models: Measured with JEITA RC-913IC (1:1) probe. For 200-6600V models: Measured with 100:1 probe.

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

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

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

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

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

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

 16. Measured at the sensing point.

 17. For 10V model lo Transensing point.

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

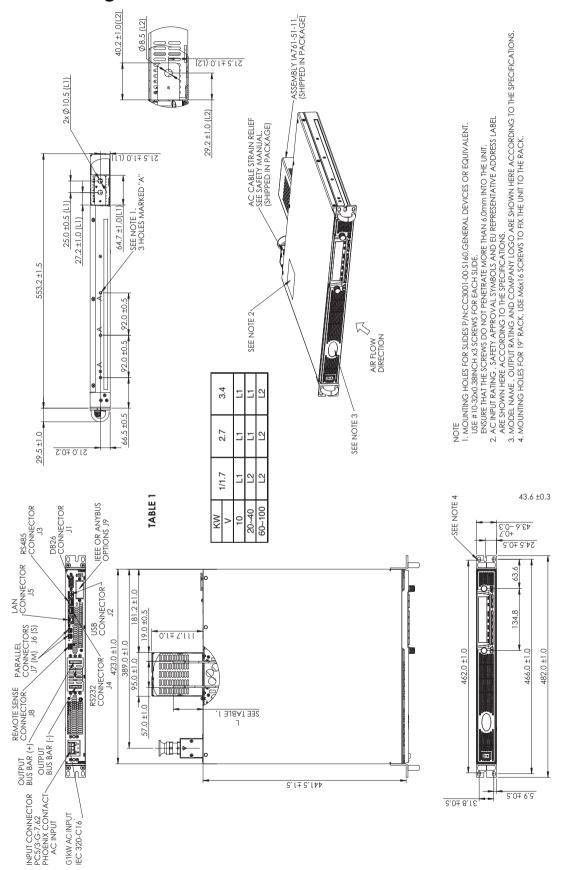
 19. Max. ambient temperature for using IEEE is 40°C.

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

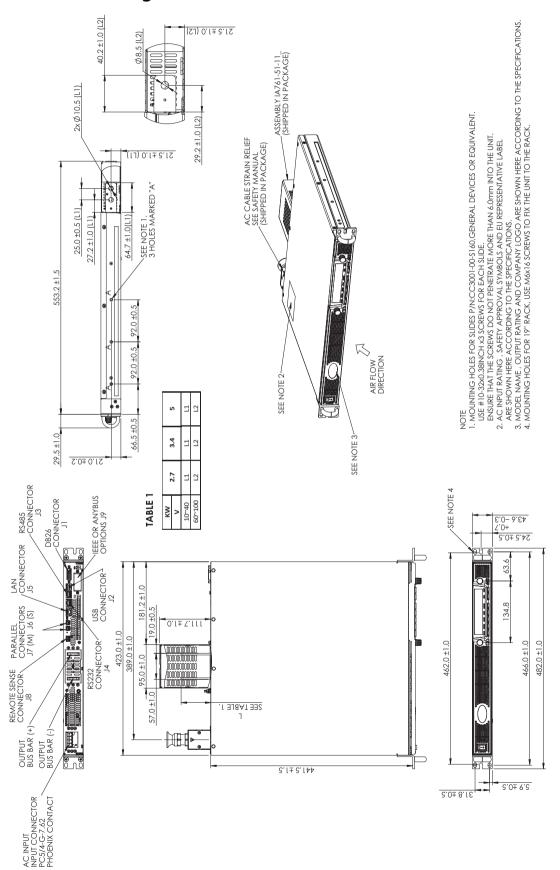
 21. For 10V model only: For 3-Phase 200V efficiency is 88.5%

 22. T

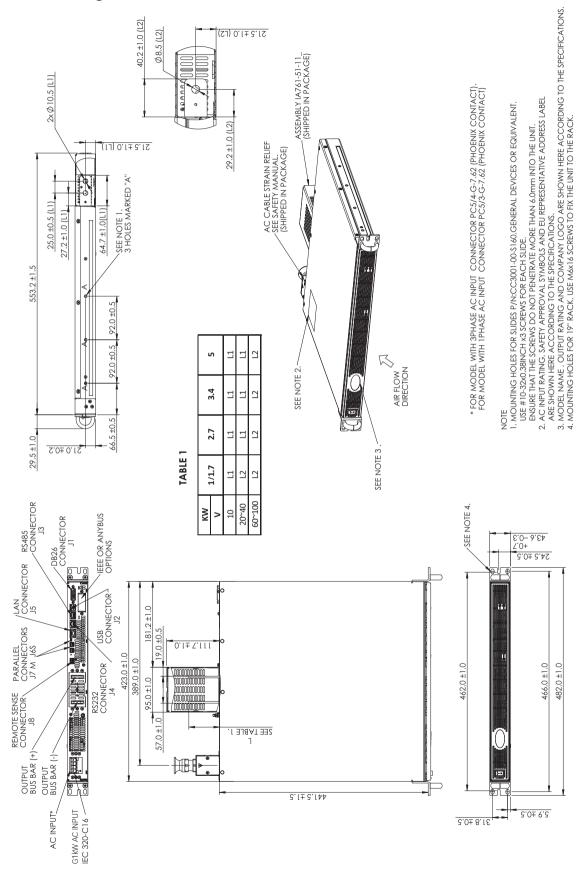
Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



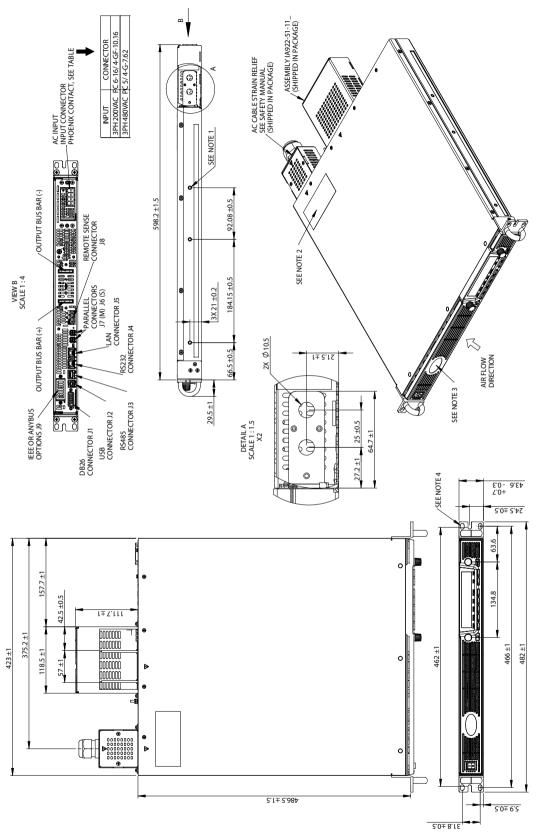
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



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



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



NOTE

1. MOUNTING HOLES FOR SLIDES P/NCC3001-00-5160,GENERAL DEVICES OREQUIVALENT.

1. MOUNTING HOLES FOR SLIDES P/NCC3001-00-5160,GENERAL DEVICES OREQUIVALENT.

1. SERVING THAT THE SCREWS FOR THE SKEMS FOR THAN 6.0mm INTO THE UNIT.

2. AC INPUT RATING, SAFETY APPROVAL SYMBOLS AND EU REPRESENTATIVE LABEL

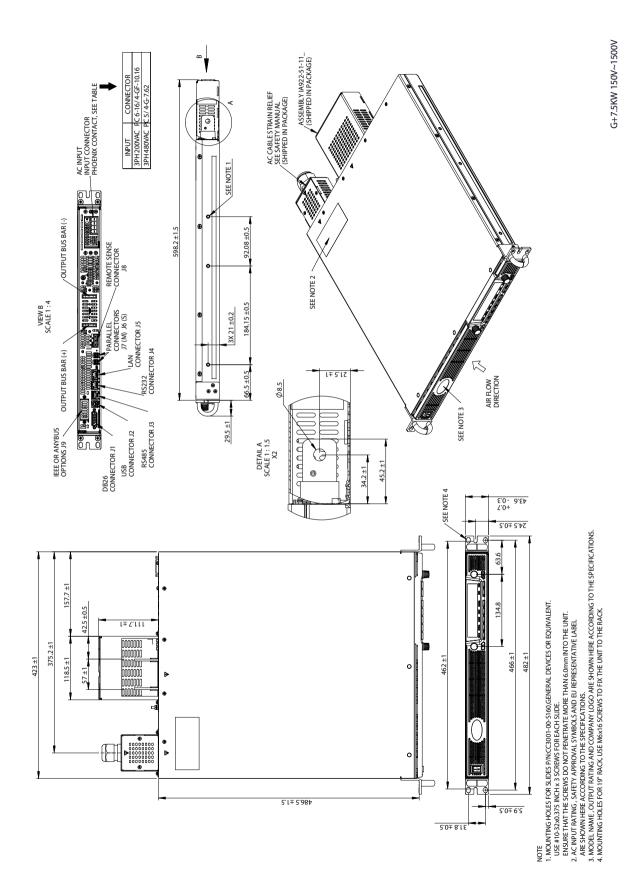
ARE SHOWN HERE ACCORDING TO THE SPECIFICATION.

3. MODEL NAME, OUTPUT RATING AND COMPANY LOCK SHOWN HERE ACCORDING TO THE SPECIFICATIONS.

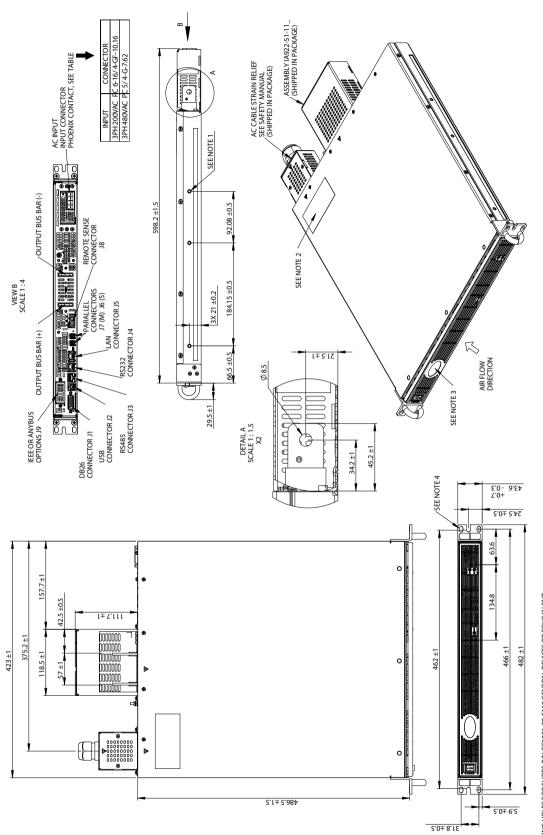
4. MOONTING FOLES FOR 19° RACK, USE MOS 10° SCREWS TO FIX THE UNIT TO THE SPECIFICATIONS.

G+7.5KW 20V~100V

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

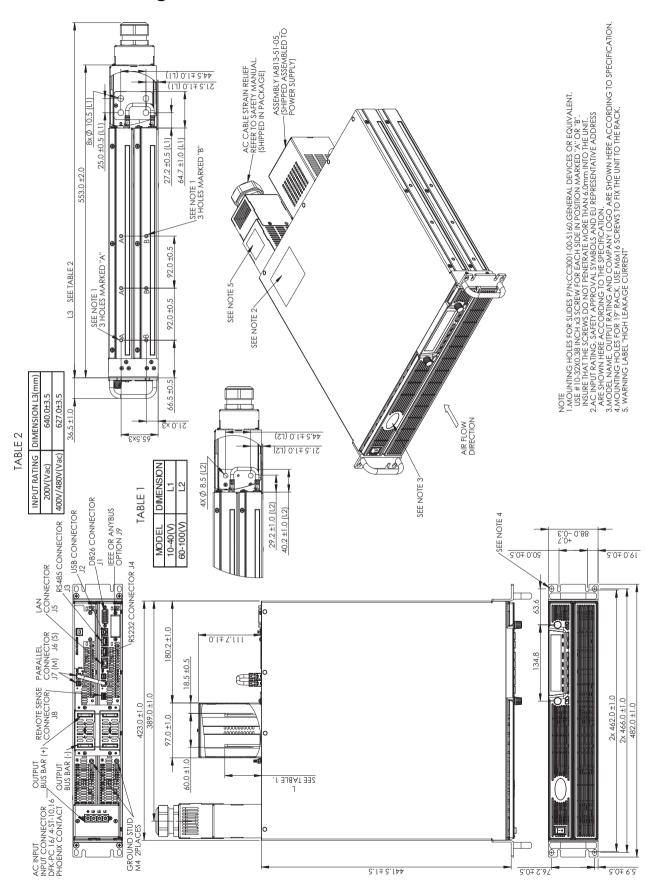


Outline Drawing GENESYS[™] GB7.5kW ATE Version

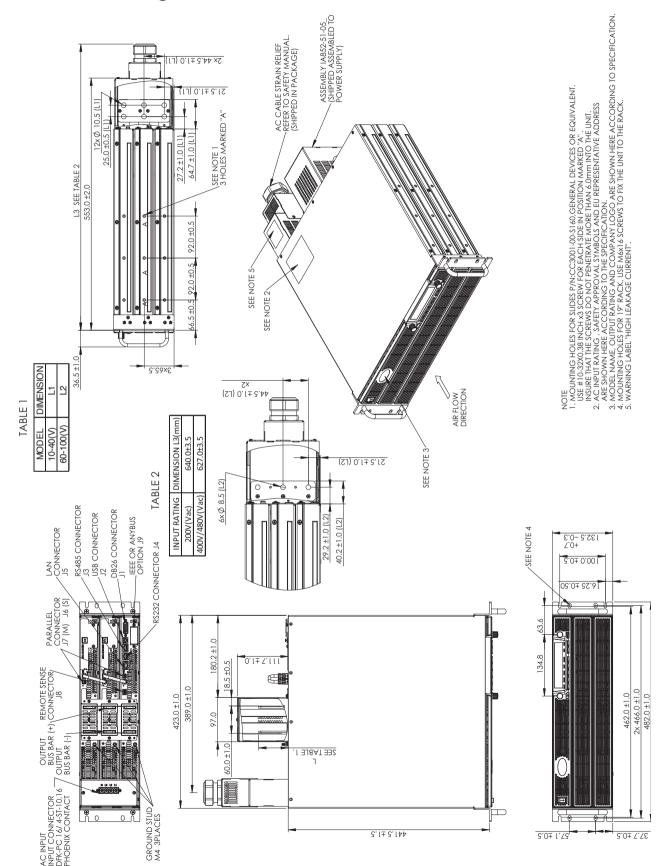


G+7.5KW BLANK 150V~1500V

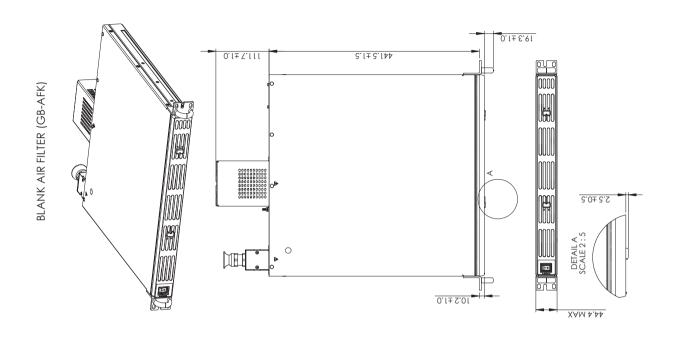
Outline Drawing GENESYS™ GSP10kW

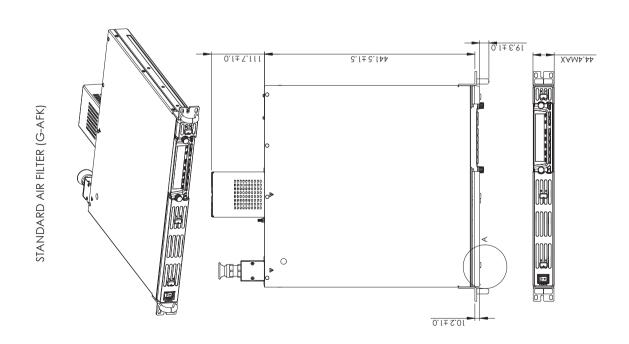


Outline Drawing GENESYS™ GSP15kW



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





Front Panel Air Filter Assembly

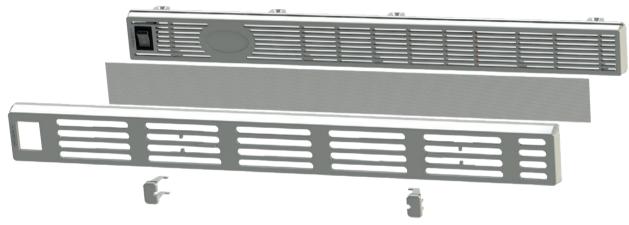
Front panel dust cover is available for dusty air environment applications

Dust cover is removable snap-in filter (for easy maintenance)

Part Number (for standard unit): G-AFK



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



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

Accessories

1. Front Panel dust filter / Field installation kit:

Technical Specifications: Unit with Air Filter Assembly Installed

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

Filter Foam Technical Specifications

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

Air Filter Assembly Components

Standard Unit (P/N: G-AFK)

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

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

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

NORTH AMERICA

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

UK

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

FRANCE

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

GERMANY

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

AUSTRIA

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

ITALY

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

ISRAEL

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

Switzerland

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

Denmark

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

JAPAN

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

CHINA

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

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

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

KOREA

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

SINGAPORE

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

INDIA

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

MALAYSIA

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

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