



GENESYS[™] G Series

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

! Advanced Features Built-In!

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





Trusted • Innovative • Reliable



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

Features include:

- Leading DC Programmable power density (5kW in 1U height, 10kW/15kW in 2U/3U height) in 19" rack-mount
- Light-weight 5kW<7.5 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 / GSP10kW / 15kW: 3ø (208VAC, 400VAC & 480VAC), Wide-range 3ø 480VAC (342VAC ~ 528VAC)
- Active PFC (0.94 typical)
- Output Voltage up to 600V, Current up to 1500A
- Built-in LAN (LXI 1.5), USB, RS-232/RS-485 Interface
- Multi-Drop capability (RS-485)
- Multi-functional front panel display
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- Arbitrary Waveform Generator with Auto-Trigger Capability
- · Store up to 100 steps into four internal memory cells
- High-speed Programming
- Constant Voltage/Constant Current operation modes
- Constant Power (CP) Limit
- Slew-Rate Control (V/I)
- Internal Resistance Programming Simulation
- Local / Remote Sensing software controlled
- Built-In Remote Isolated Analog Program/Monitor and Control Interface
- Protection functions (OVP, UVP, UVL, FOLD (CV/CC), OCL, OTP, AC FAIL)
- · Fan speed controlled by ambient temperature and load
- Certified LabWindows[™]/CVI, LabVIEW[™], and IVI Drivers
- Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
- 19" Rack Mount capability for ATE and OEM application
- Scalable Power Systems of 10kW and 15kW
- Parallel Systems (up to 60kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

Applications

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

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

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

Higher power systems can be configured with up to twelve (12) 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.

TDK·Lambda

G1kW-5kW Front Panel Description



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

G1kW-5kW Rear Panel Description



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

GSP10kW Front Panel Description



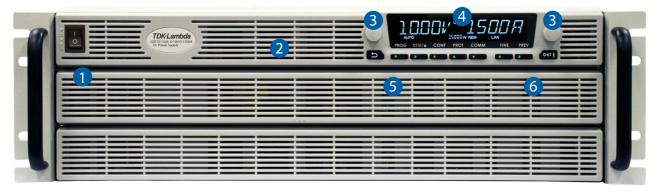
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP10kW Rear Panel Description



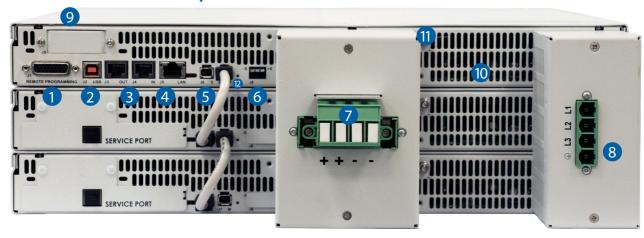
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

GSP15kW Front Panel Description



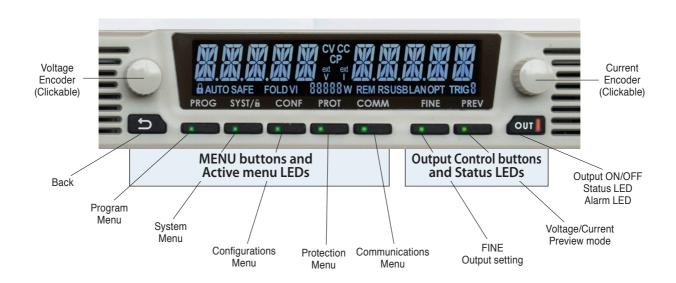
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

GSP15kW Rear Panel Description

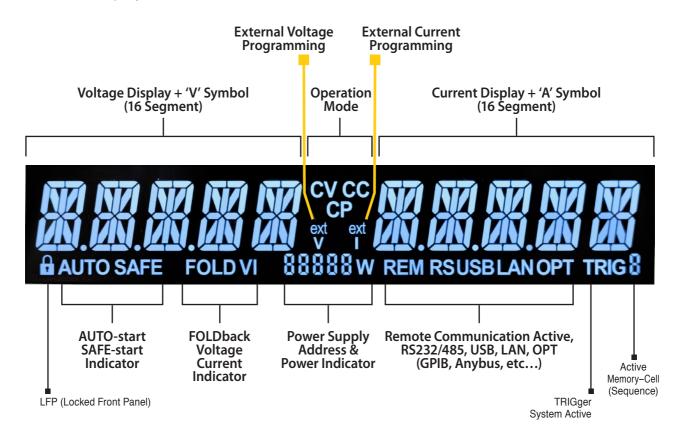


- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

Front Panel Display MENU/CONTROL buttons:



Front Panel Display indicators



GENESYS™ G&GSP Series Blank Front Panel (ATE version) POWER (LED) POWER (LED)

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

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

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

GENESYS™ Parallel and Series Configurations

Parallel operation - Master/Slave:

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

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

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

Order P/N: G/P - 6U

Series operation

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

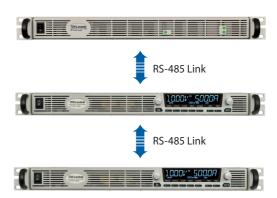
Multi-Drop Remote Programming via Communication Interface

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.



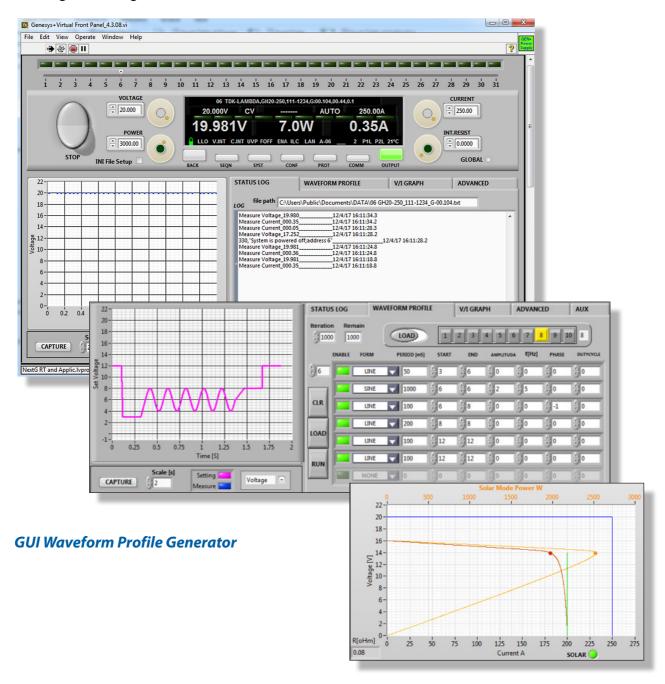




Graphical User Interface

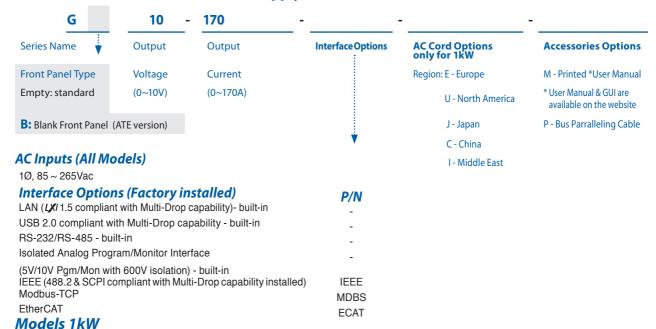
Advanced "Virtual Front Panel" allows programming and monitoring unit(s) with or without front panel display.

- 1. Control and monitor up-to 31 units with "Address" bar
- 2. Front panel set-up menu control (PROGram, SYSTem, CONFiguration, PROTection and COMMnication)
- 3. Informative "Parameters" status bar
- 4. Individual unit and Global command control
- 5. Data logging including errors, events and recovery
- 6. Realtime Graph and Waveform creator, store/load sequence.
- 7. Solar array mode calculate MPP (Max Peak Power) for solar array.
- 8. Registers View: Operation Status, Fault, Event Status, ENABLE and INTERLOCK signals.
- 9. Remote communication state LOC, REM, LLO.
- 10. Programmed signals 1&2



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



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

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

Models 1.7kW

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

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

Accessories

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

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

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

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

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

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

3. Bus Paralleling cable

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

4. User Manual

Printed User Manual	G/M

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

G 10 340 Series Name Output Interface Options **AC Input Options Accessories Options** Output Front Panel Type Voltage Current 1P208 (Single Phase 170~265VAC) M - Printed *User Manual * User Manual & GUI are Empty: standard (0~340A) (0~10V) 3P208 (Three Phase 170~265VAC) available on the website **B:** Blank Front Panel (ATE version) 3P400 (Three Phase 342~460VAC) P - Bus Parralleling Cable 3P480 (Three Phase 342~528VAC) P/N *Interface Options (Factory installed)* LAN (LXI 1.5 compliant with Multi-Drop capability)- built-in USB 2.0 compliant with Multi-Drop capability - built-in RS-232/RS-485 - built-in

IEEE

MDBS

ECAT

Models G2.7kW

Modbus-TCP

EtherCAT

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

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-265	0~10V	0~265	2650	G80-34	0~80V	0~34	2720
G20-135	0~20V	0~135	2700	G100-27	0~100V	0~27	2700
G30-90	0~30V	0~90	2700	G150-18	0~150V	0~18	2700
G40-68	0~40V	0~68	2720	G300-9	0~300V	0~9	2700
G60-45	0~60V	0~45	2700	G600-4.5	0~600V	0~4.5	2700

Models G3.4kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-340	0~10V	0~340	3400	G80-42	0~80V	0~42	3360
G20-170	0~20V	0~170	3400	G100-34	0~100V	0~34	3400
G30-112	0~30V	0~112	3360	G150-22.5	0~150V	0~22.5	3375
G40-85	0~40V	0~85	3400	G300-11.5	0~300V	0~11.5	3450
G60-56	0~60V	0~56	3360	G600-5.6	0~600V	0~5.6	3360

Accessories

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

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

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

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

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

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

3. Bus Paralleling cable

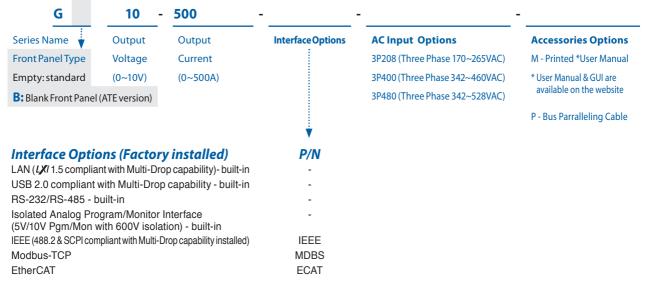
Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

4. User Manual

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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 **G**ENESYS[™] power supplies.

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

3. Bus Paralleling cable

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

4. User Manual

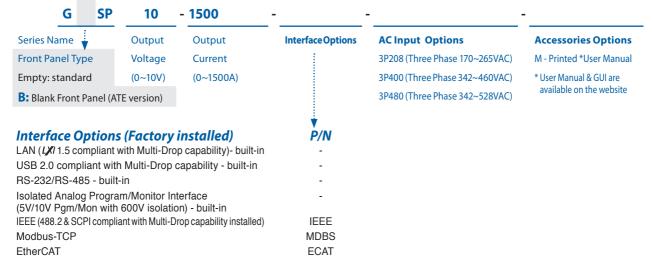
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Printed User Manual	G/M

5. Parallel Kit: 20kW/30kW

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

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

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
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TDK-Lambda

GENESYS[™] Family Output Voltage and Current

Models Series		G (Std GB (Blan	GSP (Scalable Power) GBSP (Scalable Power)				
Rated Power	1kW	10kW	15kW				
Voltage Range							
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	0~500A	0~750A
0-30V	0~34A	0~56A	0~90A	0~112A	0~170A	0~340A	0~510A
0-40V	0~25A	0~42A	0~68A	0~85A	0~125A	0~250A	0~375A
0-50V	-	-	-	-	0~100A	0~200A	0~300A
0-60V	0~17A	0~28A	0~45A	0~56A	0~85A	0~170A	0~255A
0-80V	0~12.5A	0~21A	0~34A	0~42A	0~65A	0~130A	0~195A
0-100V	0~10A	0~17A	0~27A	0~34A	0~50A	0~100A	0~150A
0-150V	0~7A	0~11.2A	0~18A	0~22.5A	0~34A	0~68A	0~102A
0-200V	-	-	-	-	0~25A	0~50A	0~75A
0-300V	0~3.5A	0~5.6A	0~9A	0~11.5A	0~17A	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	0~17A	0~25.5A
Weight (kg/lb)	5/11	5/11	6.25/14.3	6.25/14.3	7.5/16.5	15.5/34.2	23.5/51.8

AC Input Range

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

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



Models 1kW

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

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

Models 1.5kW

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

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

GENESYS[™] 1kW SERIES SPECIFICATIONS

Indeed capting charger(**)	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
Bilbert context carriers**			_										
Supplicit Property Property Supplicit Property													
Reput clarified (1961) Seed (1901) Seed (1901) Seed (1902) See				1000	1000	1020	1000	1020	1000	1000	1050		1020
Reput clarified (1961) Seed (1901) Seed (1901) Seed (1902) See	INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
Absorber Factor 100													
Efficiency and 100 Nov. 2000000, page 100 Nov. 2000000000000000000000000000000000000		% load (100/200)	Α										
Stands Control (PS)	3.Power Factor (Typ)			0.99 @ 100Va	c 0.98 @ 200	Vac, rated out	put power.						
Construct No. Construct No	4.Efficiency at 100 Vac/200Vac, ra	ated output (*17)		86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
Max. Late regulation (**)	5.Inrush current (*5)		Α	Less than 50A	A								
2	CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
2					d output volta								
Stagilge area STE-14 Stage Sta	-			0.01% of rate	d output volta	ae +2mV							
Sepple new 2016 1979 1970 197		(*8)	mV		_ _		60	60	75	75	75	120	500
Simple parties and Confidence PMUC Significant Confidence Signi							7	7					100
Comparison Com	H-11												
2. Name up drift	· ·									e. load & temi	n.		
Bemoite sense compensation													
18.0 19.0	<u> </u>	vire (*10)					1		1 .	1	5	5	5
Monomprogresponse time		(10)											
No load 112 ms Soo	rich bredimentarium (ri)	Full load (*12)							-	 			
1.75 million temporate time	10.Down-prog.response time:												_
10-100K_coal sense. Less than 1nmS, for models above 100V_	44.7	1101044 (12)											
13.16014 patien	11. Iransient response time			10~100%, Lo	cal sense. Less	than 1mS, for	models up to	and including	g 100V. 2mS, fo	or models abo	ve 100V.		
CONSTANT CURRENT MODE	12.Start up delay			Less than 6 Se	ec								
Jakes_Line regulation (**)	13.Hold-up time		mS				20	ms typical, rat	ed output po	wer			
Jakes_Line regulation (**)	CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600
2006/16/19/19/19/19/19/19/19/19/19/19/19/19/19/									, 50				
318pple.m.s. @ rated voltage. B.W 5Hz-IMHz. (*13)	-												
Simple parture coefficient		W 5Hz~1MHz. (*13)	mA				<60	<50	<30	<20	<10	<8	< 5
Simperature coefficient													
0.1% of rated lout over 8hs. Interval following 30 minutes warm-up. Constant line, load & temperature. 7. Nam-up drift 10.100 model: Less than +/-0.2% for fated output current over 30 minutes following power on. 130V-600VL Less than +/-0.15% of rated output current over 30 minutes following power on. 130V-600VL Less than +/-0.15% of rated output current over 30 minutes following power on. 130V-600VL Less than +/-0.15% of rated output current over 30 minutes following power on. 130V-100V wordsge programming (*14) 230vt vorltage programming (*14) 230vt vorltage programming (*14) 240vt resistor programmi	5.Temperature coefficient		PPM/°C										
AVAIT-Up drift	6.Temperature stability								<u> </u>		perature.		
ANALGE PROGRAMMING AND MONITORING (ISO.LATED FROM THE OUTPUT)													
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1/Yout votage programming	7. Warm-up drift	17 Warm-up drift											
10x0ut voltage programming 0-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/0.15% of rated Vout.						1570 01 14104 0	output current		tes ronoving	porrer on:			
2001 voltage programming (**14)		MONITORING (ISOLATED											
3.00ut resistor programming 0-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.													
Allout resistor programming (*14)		1)											
0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated Vout.													
Signal San De Control Signal		1)							ity: +/-0.5% of	rated lout.			
SiGMALS AND CONTROLS (ISOLATED FROM THE OUTPUT)	<u> </u>												
Power supply OK #1 signal Power supply output monitor. Open collector. Output Off. On. Output Off. Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. DICAL/REMOTE Analog ontrol Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal Enable/Disable bandag programming control by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 6-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 6-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 6-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or open. 4. Enable/Disable PS output by electrical signal or dry contact. 8-mote: 0-0.6V or short. Local: 2-30V or	6.Output current monitor (*14)			0~5V or 0~10	V, user selecta	ible. Accuracy	r: +/-0.5% of ra	ited lout.		-			
2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open lector. Remote: 0-0.6V or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open lector. Remote: 0-0.6V or short. Local: 2-30V or open. User selectable logic. 5. ENABLE/DISABLE signal Enable/Disable PS output by electrical signal or dry contact. Remote: 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. 2-30V or open. User selectable logic. 7. Programmed signals Two open drains programmable signals. Maximum voltage 2-5V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. User selectable logic. 8. TRIGGER IN / TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. User selectable logic. 8. TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. User selectable logic. 8. TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. 2-30V or open. User selectable logic. 8. TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. 2-30V or open. User selectable logic. 8. TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. 2-30V or open. User selectable logic. 8. TRIGGER OUT signals Possible PS output by electrical signal or dry contact. Remote: 0-0.6V or short. 2-3.0V or open. User selectable logic. 9. DAISY_INSO Control of the Selectable Individuals in the Select	SIGNALS AND CONTROLS (ISOLA	ATED FROM THE OUTPUT	T)										
3.LOCAL/REMOTE Analog control	1. Power supply OK #1 signal			Power supply	output moni	tor. Open coll	ector. Output	On: On. Outpu	ut Off: Off. Ma:	ximum Voltag	e: 30V, Maxim	um Sink Curre	nt: 10mA.
4. LOCAL/REMOTE Analog signal	2. CV/CC signal			CV/CC Monite	or. Open colle	ctor. CC mode	: On. CV mode	: Off. Maximu	m Voltage: 30	V, Maximum S	ink Current: 10	0mA.	
5. ENABLE/DISABLE signal	3. LOCAL/REMOTE Analog contro	ol		Enable/Disab	ole analog pro	gramming co	ntrol by electr	ical signal or c	lry contact. Re	mote: 0~0.6V	or short. Loca	al: 2~30V or op	en.
6.INTERLOCK (ILC) control 7. Programmed signals 7. Two open drain programmable signals, Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals 8. TRIGGER IN / TRIGGER COUT signals 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 4 identical units in Master/Slave mode. Refer to instruction manual. 9. Series operation 9. Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual. 9. Series operation 9. Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Count of the instruction manual. 9. Supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Count of the instruction ports or the front panel. 9. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 9. Outpergramming accuracy (*15) 9. Outpergramming accuracy (*16) 9. Outpergramming accuracy (*16) 9. Outpergramming accuracy (*	4. LOCAL/REMOTE Analog signal			analog progr	amming contr	ol monitor sig	nal. Open colle	ector. Remote:	On. Local: Off	. Maximum Vo	ltage: 30V, Ma	ximum Sink Cu	rrent: 10mA.
7. Programmed signals	5. ENABLE/DISABLE signal			Enable/Disab	ole PS output b	y electrical si	gnal or dry co	ntact. 0~0.6V	or short, 2~30	V or open. Use	er selectable k	ogic.	
8. RRIGGER IN / TRIGGER OUT signals 9. DAISY_IN/SO control signal 1 By electrical Voltage = 0.8V,Minimum high level input voltage = 2.5V, Maximum high level input = 5V positive edge trigger: tw=lous minimum. Tr,If=lus Maximum, Min delay between 2 pulses 1ms. 10. DAISY_OUT/PS_OK #2 signal 1 4~5V=OK, 0V (500 ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 4. Constant power control 5. Output resistance 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 by the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/48S, Optional IEEE (*16) Interfaces) 1. Vuot programming resolution 1. O.005% of rated output voltage 4. Output current 2. Output resided output voltage 4. Output of rated output voltage 4. Output gesided output voltage 6. Output gesided output voltage 7. Output gesided output voltage 8. Output gesided output voltage 9. Output gesided output vol	6. INTERLOCK (ILC) control												
egge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms. 9. DAISY_IN/SO control signal	7. Programmed signals			Two open dra	ain programm	able signals. N	/laximum volt	age 25V, Maxi	mum sink curi	ent 100mA (S	hunted by 27\	/ zener)	
Possible. Up to 4 identical units in Master/Slave mode. Refer to instruction manual. 2. Series operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 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 waveforms 7. Outprogramming accuracy (*14) 7. Vout readback accuracy 7. Vout readback accuracy 7. Vout readback resolution (of rated output voltage 6. Lout possible control 7. Outprogramming resolution 7. Outprogramming resolution (of rated output voltage) 8. Output voltage 8. Output voltage 9. Outprogramming resolution (of rated output voltage) 9. Output voltage 9. Output vo	8. TRIGGER IN / TRIGGER OLIT sign	nals		Maximum lo	ow level inpu	t voltage = 0	0.8V,Minimur	m high level	input voltag	e = 2.5V, Max	ximum high l	evel input =	5V positive
### To Possible Lip to 4 identical units in Master/Slave mode. Refer to instruction manual. Possible Lip to 4 identical units in Master/Slave mode. Refer to instruction manual.		- *						num, Min del	ay between	z pulses 1ms	5.		
FUNCTIONS AND FEATURES 1. Parallel operation							y contact.						
1. Parallel operation				4~5V=UK, 0V	(SUUONM IMP	edance)=Fail							
2. Series operation	FUNCTIONS AND FEATURES												
3. Daisy chain	1. Parallel operation			Possible. Up	to 4 identical ι	ınits in Masteı	/Slave mode.	Refer to instru	ction manual				
4. Constant power control	2. Series operation			Possible. Two	identical unit	s. Refer to ins	truction manu	ıal.					
5. Output resistance control	3. Daisy chain			Power suppli	es can be con	nected in Dais	y chain to syn	chronize thei	turn-on and	turn-off.			
6. Slew rate control 7. Arbitrary waveforms	4. Constant power control			Limits the ou	tput power to	a proggramn	ned value. Pro	gramming via	the communi	cation ports o	or the front pai	nel.	
Communication ports or the front panel.	5. Output resistance control												
Communication ports or the front panel.	6. Slew rate control			Programmab	le Output rise	and Output f	all slew rate. P	rogramming i	ange: 0.0001~	999.99 V/mSe	ec. or A/mSec.	Programming	via the
ROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*16) Interfaces) V 10 20 30 40 60 80 100 150 300 600							- 4	alla A et et	- h	al a de al			
R5232/485, Optional IEEE (**16) Interfaces) V I/O ZO 30 40 80 80 100 150 500 600 1.Vout programming accuracy (*15) 0.05% of rated output voltage 0.1% of actual output current+0.2% of rated output current 3.Vout programming resolution 0.002% of rated output voltage	/. Arbitrary waveforms			Profiles of up	to 100 steps o	an be stored	ın 4 memory c	eiis. Activatio	n by comman	d via the comi	munication po	rts or by the fr	ont panel.
Nout programming accuracy (*14) 0.05% of rated output voltage	PROGRAMMING AND READBA	ACK (USB, LAN,	V	10	20	30	40	60	80	100	150	300	600
2.lout programming accuracy (*14)	· ·			-									
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 (*14) 0.2% of rated output current 7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004% 0.002%							tod actor 1						
4.lout programming resolution		14)					tea output cui	rient	-	-			
5.Vout readback accuracy 0.05% of rated output voltage 6.lout readback accuracy (*14) 0.2% of rated output current 0.003% 0.002% 0.002% 0.011% 0.007% 0.002% 0.002% 0.011% 0.007% 0.002% 0													
6.lout readback accuracy (*14) 0.2% of rated output current 0.2% of rated output current 0.000 of rated output current 0.000 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%									-	-	0.250/ -5	al autorit -	
	· · · · · · · · · · · · · · · · · · ·	and not seen to the control of the c					0.0020/	0.0020/	0.0000/	0.0110/			
o.ioutreadbackresolution (or rated output currenti)													
	o.iout reauback resolution (of lat	ieu output current))	70	U.U11%	0.003%	0.004%	0.005%	0.007%	0.009%	U.U11%	U.U15%	0.004%	0.007 %

TDK·Lambda-

GENESYS[™] 1.7kW SERIES SPECIFICATIONS

CONTENT ATING	600-2.8 600 2.8 1680 600 888/90 600 500 100 500 100 4600 4500 4500 4555
A	2.8 1680 600 88/90 600 500 100 500 100 200 4600 t set-point:
SARIED COMPUTE CHARACTERISTICS V 10 20 30 40 60 80 100 150 300 300 300 300 300 300 300 300 300 300 300 300	1680 600 88/90 600 500 100 500 100 200 4600 t set-point:
Input voltage/freq. [73]	500 100 200 4600 t set-point:
Lingut voltage/freq. (13)	88/90 600 500 100 200 4600 t set-point:
2 Maximum Input current at 100% load (100/200)	500 100 500 100 200 4600 t set-point:
3Power Factor (Typ)	500 100 500 100 200 4600 t set-point:
A	500 100 500 100 200 4600 t set-point:
Single A Less than 50A Less than 50A V 10 20 30 40 60 80 100 150 300 30	500 100 500 100 200 4600 t set-point:
CONSTANT VOLTAGE MODE	500 100 5 100 200 4600 t set-point:
1.Max. Line regulation (*fo)	500 100 5 100 200 4600 t set-point:
2.Max. Load regulation (*7)	100 5 100 200 4600 t set-point:
3.Ripple and noise (p-p, 20MHz) (*8) mV 50 50 50 50 60 60 75 75 75 75 120 4.Ripple trms. 5Hz-MHz (*8) mV 6 6 6 6 7 7 10 12 8 20 5.Temperature coefficient PPPMC 50PPMC** from rated output voltage, following 30 minutes warm-up. 5.Temperature stability	100 5 100 200 4600 t set-point:
ARipple r.m.s. SHz-IMHz (*8)	100 5 100 200 4600 t set-point:
Stemperature coefficient	5 100 200 4600 4 set-point:
Comparative stability	100 200 4600 t set-point:
2.	100 200 4600 t set-point:
8.Remote sense compensation/wire (*10)	100 200 4600 t set-point:
Sup-prog. Response time (*11)	100 200 4600 t set-point:
10.Down-prog.response time: Full load (*12) mS 30 30 60 60 60 60 60 60	200 4600 t set-point:
10.Down-progresponse time: No load (*12) mS 450 700 1000 1200 1500 1700 2600 2900 4600 11.Transient response time mS Time for output voltage to recover within 0.5% of its rated output for a load change 10−90% of rated output current. Out 10−100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V. 12.Start up delay Sec Less than 6 Sec Less than	4600 t set-point:
Time for output voltage to recover within 0.5% of its rated output for a load change 10~90% of rated output current. Out 10~10%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V. 12. Start up delay Sec Less than 6 Sec 16ms typical, rated output power CONSTANT CURRENT MODE V 10 20 30 40 60 80 100 150 300 1.Max. Line regulation (*6) 0.01% of rated output current. +2mA 2.Max. Load regulation (*9) 3.Ripiple r.ms. @ rated voltage. B.W 5Hz~1MHz. (*13) mA	t set-point:
10-100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V. 12. Start up delay Sec Less than 6 Sec 13. Hold-up time mS 16-ms typical, rated output power CONSTANT CURRENT MODE V 10 20 30 40 60 80 100 150 300 1. Max. Line regulation (*6) 0.01% of rated output current. +2mA 2. Max. Load regulation (*9) 3. Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13) mA ≤420 ≤160 ≤100 ≤60 ≤50 ≤30 ≤20 ≤10 ≤8 5. Temperature coefficient PPM/C 6. Temperature stability 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. 6. Temperature stability 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. 10V-100V model: Less than +/-0.15% 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. 150V~600V. Less than +/-0.15% of rated output current over 30 minutes following power on. 150V~600V. To Volvo or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout. 3. Vout resistor programming (*14) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4. Lout resistor programming (*14) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4. Lout voltage programming (*14) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4. Lout voltage monitor 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. Coutput current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout. 6. Coutput current monitor (*14) Power supply OK #1 signal 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated lout. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.	600
12.Start up delay 13.Hold-up time mS 16ms typical, rated output power CONSTANT CURRENT MODE V 10 20 30 40 60 80 100 150 300 1.Max. Line regulation (*6) 2.Max. Load regulation (*6) 3.Ripple r.m.s. @ rated voltage. B.W 5Hz−1MHz. (*13) mA 4240 3.Ripple r.m.s. @ rated voltage. B.W 5Hz−1MHz. (*13) mA 4240 5.Temperature coefficient PPM/*C 6.Temperature stability 7. Warm-up drift 10V-100V 100PPM/*C from rated output current, following 30 minutes warm-up. 150V-600V 70PPM/*C from rated output current, following 30 minutes warm-up. 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. 0.01% of rated output current over 30 minutes warm-up. 150V-600V 70PPM/*C from rated output current over 30 minutes warm-up. 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. 0.01% 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. ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1.Vout voltage programming 1.O-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 2.Iout voltage programming 2.O-100%, 0-5V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.Iout resistor programming 3.O-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.Iout resistor programming 3.Vout resistor programming 4.O-100%, 0-5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.Iout resistor programming 5.Output voltage monitor 6.Output current monitor 7.O-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor 7.O-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor 7.O-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor 7.O-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor 7.O-5V or 0-10V, user selectable. Accuracy: -/-0.5% of rated Vout. 6.Output	
13.Hold-up time	
CONSTANT CURRENT MODE	
1.Max. Line regulation (*6) 0.01% of rated output current. +2mA 2.Max. Load regulation (*9) 0.02% of rated output current. +5mA 3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13) mA ≤420 ≤160 ≤100 ≤60 ≤50 ≤30 ≤20 ≤10 ≤8 5.Temperature coefficient PPM/°C from rated output current, following 30 minutes warm-up. 6.Temperature stability 0.01% of rated lout over 8hrs. interval following 30 minutes warm-up. 7. Warm-up drift 10V~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. ANALOG PROGRAMMING AND MONITORING (ISOLATED FROMTHE OUTPUT) 1.Vout voltage programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated lout. 3.Vout resistor programming (*14) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout. 3.Vout resistor programming (*14) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.Jout resistor programming (*14) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 5.Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 6.Output current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output Current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output Ontrol (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output Ontrol (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output Ontrol (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output Ontrol (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output Ontrol (*14) 0~5V or 0~10V, user selectable. Accuracy: -/-0.5% of rated Vout. 6.Output Ontrol (*14) 0~5V or 0~10V, user selectable. Accuracy: -/-0.5%	
2.Max. Load regulation (*9) 3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13) MA \$420 \$160 \$100 \$60 \$50 \$30 \$20 \$10 \$8\$ 5.Temperature coefficient PPW*C 6.Temperature stability	≤5
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13) mA	≤5
5.Temperature coefficient PPM/°C 10V~100V 100PPM/°C from rated output current, following 30 minutes warm-up.	≤5
Stemperature coefficient PPM/°C	
150V-600V 70PPM/°C from rated output current, following 30 minutes warm-up.	
7. Warm-up drift	
Towarm-up drift Towarm-up	
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT) 1.Vout voltage programming	
1.Vout voltage programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout. 2.lout voltage programming (*14) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout. 3.Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.lout resistor programming (*14) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 5.Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 of rated Vout. 5.GINALS 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.	
1.Vout voltage programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout. 2.lout voltage programming (*14) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout. 3.Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.lout resistor programming (*14) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 5.Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout. 6.Output current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 of rated Vout. 5.GINALS 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.	
3.Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.lout resistor programming (*14) 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 (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 of rated lout.%. 5.IGNALS 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.	
3.Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout. 4.lout resistor programming (*14) 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 (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 of rated lout.%. 5.IGNALS 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.	
4.lout resistor programming (*14) 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 (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 of rated lout.%. 5.GIGNALS 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.	
5.Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: +/-0.5% of rated Vout 6.Output current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 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.	
6.Output current monitor (*14) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5 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. 2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.	
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 Cu 2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.	
1. Power supply OK #1 signal Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Cu 2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.	
2. CV/CC signal CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.	
	nt: 10mA.
3. LOCAL/REMOTE Analog control Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or	
31 3 3 7	
4. LOCAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink	rrent: 10mA.
5. ENABLE/DISABLE signal Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic.	
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 —— Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)	F) (
8. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level input edge trigger: tw=10us minimum. Tr,Tf=1us Maximum, Min delay between 2 pulses 1ms.	5V positive
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~SV=OK, 0V (500ohm impedance)=Fail	
•	
EUNCTIONS 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: $1-1000m\Omega$. 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. Programm	via the
Communication ports of the front paner.	
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	ont panel.
PROGRAMMING AND READBACK (USB, LAN, V 10 20 30 40 60 80 100 150 300	600
RS232/485, Optional IEEE (*18) Interraces)	
1.Vout programming accuracy (*15) 0.05% of rated output voltage	
2.lout programming accuracy (*14) 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 (*14) 0.2% of rated output current	
7.Vout readback resolution (of rated output voltage) % 0.011% 0.006% 0.004% 0.003% 0.002% 0.002% 0.011% 0.007% 0.004%	
8.lout readback resolution (of rated output current)) % 0.007% 0.002% 0.003% 0.003% 0.005% 0.005% 0.006% 0.007% 0.010% 0.003%	0.002% 0.004'%

GENESYS[™] 1kW/1.7kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10	20	30	40	60	80	100	150	300	600	
1.Foldback protection			Output shut- User presetal	down when p ble. Reset by A	ower supply o	:hanges mode le in autostart	from CV or Pomode, by Pom	ower Limit to wer Switch, by	CC mode or fro OUTPUT butt	om CC or Powe on, by rear pa	er Limit to CV r nel or by comr	mode. munication.	
2.Over-voltage protection (OVP)			Output shut-	down. Reset b	y AC input re			OUTPUT butte	on, by rear par	el or by comn			
3.Over -voltage programming range		V	0.5~12	1~24	2~36	2~44.1	5~66.15	5~88.2	5~110.25	5~165.37	5~330.75	5~661.5	
4. Over-voltage programming accura	су			d output volta									
5.Output under voltage limit (UVL)								programming	g. Preset by fro	nt panel or co	mmunication	port.	
6.Over temperature protection													
7. Output under voltage limit (UVL)				ustment of Vo									
8. Output under voltage protection (I					. P.S output tu on, by rear pa			ge condition. R	eset by AC inp	out recycle in a	utostart		
FRONT PANEL													
1.Control functions			Multiple opti	ons with 2 End	oders					-			
				wer Limit mar									
			OVP/UVL/UV	P manual adju	ıst								
			Protection Fu	unctions - OVP	, UVL,UVP, Fol	dback, OCL, El	NA, ILC						
			Communicat	ion Functions	- Selection of	LAN,IEEE,RS2	32,RS485,USB	or Optional c	ommunication	n interface.			
Output ON/OFF. Front Panel Lock.													
			Communicat	ion Functions	- Selection of	Baud Rate, Ad	dress, IP and	communicati	on language.				
									10K programm	ning			
			Analog Moni	tor Functions	 Selection of 	Voltage/Curre	nt Monitorin	g 5V/10V.					
2.Display						utput voltage							
						put current +/							
3.Front Panel Buttons Indications		OUTPUT ON,	ALARM, PREV	IEW, FINE, CO	MMUNICATIO	I, PROTECTIC	N,CONFIGUR	ATION, SYSTEM	A, SEQUENCER	₹.			
				oltage, Current, Power, CV, CC, CP, External Voltage, External Current, Address, LFP, Autostart, Safetstart, Foldback V/I, Remote ommunication), RS/USB/LAN/IEEE communication, Trigger, Load/Store Cell.									
ENVIRONMENTAL CONDITIONS													
1.Operating temperature			0~50°C, 1009	% load									
			-	o load.									
2.Storage temperature			-30~85°C 20~90% RH (no condensation).										
3.Operating humidity		%											
4.Storage humidity		%		no condensati									
5.Altitude			Operating: 10	0000ft (3000m), output curr	ent derating 2	%/100m or Ta	derating 1°C/	100m above 20	000m. Non op	erating: 40000	oft (12000m).	
MECHANICAL													
1.Cooling			Forced air co	olina by interr	nal fans. Air flo	w direction: f	om Front pai	nel to power s	upply rear				
2.Weight		kg	Less than 5kg	_ , _									
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 441.5		isbars and bu			Outline drawi	ing).			
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.										
				_, 51110, 111		paciicai							
SAFETY/EMC													
1.Applicable standards: Sai	fety G1kW/G1.7kW		UL61010-1, C	SA22.2 No.610	10-1, IEC61010	D-1, EN61010-1							
1.1. Interface classification G1	kW/1.7kW		Vout≤50V Mo 60≤Vout≤600	odels: Output, OV Models: Ou	J1, J2, J3, J4, J Itput & J8 (sen	5, J6, J7, J8 (sei se) are hazard	nse) & J9 (com ous, J1, J2, J3,	munication o J4, J5, J6, J7 &	ptions) are No J9 (communic	n Hazardous. ation options) are Non Haza	ardous.	
1.2 Withstand voltage G1	kW/1.7kW		Input - Grou 60V≤Vout≤1 Output & J8 Output & J8 100V <vout≤ Output & J8 Output & J8</vout≤ 	nd: 2835VDC 00V Models: (sense) - J1, (sense) - Gro 600V Models	C 1min. Input – Outp J2, J3, J4, J5 Dund: 1500VI S: Input – Out J2, J3, J4, J5 Dund: 2500VI	ut & J8 (sens 5, J6, J7 & J9 DC 1min, Inpu put & J8 (sens 5, J6, J7 & J9	e), J1, J2, J3 (communica t - Ground: 2 se), J1, J2, J3	, J4, J5, J6, cation options) 2835VDC 1m 3, J4, J5, J6,	9 (communica J7 & J9 (comr I: 850VDC 1m in. J7 and J9 (co I: 1275VDC 1r	nunication or in.	otions): 4242\	/DC 1min,	
1.3 Insulation resistance			100Mohm at	25°C, 70%RH.	Output to Gro	ound 500VDC							
2.Conducted emmission			+				H.1 . FCC Part	15-A. VCCI-A					
3.Radiated emission			IEC/EN61204-3 Industrial environment, Annex H table H.1 , FCC Part 15-A, VCCI-A . IEC/EN61204-3 Industrial environment, Annex H table H.3 and H4, FCC Part 15-A, VCCI-A										
	1C (*4)			IEC/EN61204-			1.5 anu 114, F	CC Fait 13-A,	VCCI-A				
+. LIVIC COMPHIANCE	TC (4)		[According to	ILC/EN01204-	o muustrial ei	wiioninent							

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

 **13: For 10W model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 **15: Measured at the sensing point.

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

 **17: Ta=25°C, rated output power.

TDK·Lambda-

GENESYS[™] 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING	-	10.265	20 125	20.00	40.60	60.45	90.24	100.27	150 10	200.0	600 4 5
	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)	Α	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power	W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
	_										
INPUT CHARACTERISTICS	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)		3-Phase, 400\ 3-Phase, 480\	V models: 342 V models: 342	0~265Vac, 47~6 2~460Vac, 47~ 2~528Vac, 47~6 0~265Vac, 47~6	63Hz (Covers 63Hz (Covers :	380/400/415\ 380/400/415/	140/460/480Va	ac)			
3-Phase, 200V models 2. Maximum Input current at 100% load 3-Phase, 480V models 1-Phase, 200V models	:	10A @ 200Vac 5.5A @ 380Va 5.5A @ 380Va 16.5A @ 200V	ic ic								
				30Vac, rated ou	itput power.				-		
3.Power Factor (Typ)		For 1-Phase: (0.99 @ 200Va	c, rated output	power.						
4.Efficiency (Typ) (*5) (*22)	%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)	Α	Less than 50A	4								
				1					450		
CONSTANT VOLTAGE MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)		0.01% of rate							-	-	
2.Max. Load regulation (*8)		0.01% of rate	d output volt	age +5mV							
3.Ripple and noise (p-p, 20MHz) (*9)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient	PPM/°C	50PPM/°C fro	m rated outp	out voltage, fol	lowina 30 mir	nutes warm-u	p.				
6.Temperature stability				hrs interval fo				ne load & tem	ın		
7. Warm-up drift				utput voltage					r-		
	V			1 .		1	1 .		r.	r	5
8.Remote sense compensation/wire (*10)		2	2	5	5	5	5	5	5	5	
9.Up-prog. Response time (*11)	mS	30	30	30	30	50	50	50	50	50	100
10.Down-prog.response time: Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3200	3100
11.Transient response time	mS	10~100%, Lo	cal sense. Les	recover withi s than 1mS, fo	n 0.5% of its ra r models up to	ated output fo and includin	or a load chang ig 100V. 2mS, f	ge 10~90% of or models ab	rated output ove 100V.	current. Outp	ut set-point:
12.Start up delay	Sec	Less than 6 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			10		_ 00	100	150	300	000
2.Max. Load regulation (*13)											
,		0.08% of rate		1	.150	100	-70	.45	-20	.12	.5
3.Ripple r.m.s. @ rated voltage. 3-Phase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Phase (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient	PPM/°C			rom rated outp							
6.Temperature stability		0.01% of rate	d lout over 8h	nrs. interval fol	lowing 30 mir	nutes warm-u	p. Constant lir	ne, load & tem	perature.		
7 14/		10V~100V mc	odel: Less tha	n +/-0.25% of i	rated output o	urrent over 3	0 minutes follo	owing power	on.		
7. Warm-up drift		150V~600V: L	ess than +/-0	0.15% of rated	output curren	t over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	_										
1.Vout voltage programming		0~100%, 0~5	V or 0~10V, u	ser selectable.	Accuracy and	l linearity: +/-	0.15% of rated	Vout.			
2.lout voltage programming (*15)		0~100%, 0~5	V or 0~10V, u	ser selectable.	Accuracy and	l linearity: +/-	0.4% of rated I	out.			
3.Vout resistor programming		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accui	racy and linea	rity: +/-0.5% o	f rated Vout.			
4.lout resistor programming (*15)		0~100%, 0~5	/10Kohm full	scale, user sel	ectable. Accui	racy and linea	rity: +/-0.5% o	f rated lout.			
5.Output voltage monitor				able. Accuracy			,				
6.Output current monitor (*15)				able. Accuracy					-		
		10 37 0. 0 .0	7, 450, 50,000	.abiciricearae)	7. 17 0.570.						
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP	UT)										
1. Power supply OK #1 signal		Power supply	output mon	itor. Open coll	ector. Output	On: On. Outp	ut Off: Off. Ma	ximum Volta	ge: 30V, Maxin	num Sink Curr	ent: 10mA.
2. CV/CC signal				ector. CC mode							
3. LOCAL/REMOTE Analog control		1		ogramming co							pen.
4. LOCAL/REMOTE Analog signal				rol monitor sign							
5. ENABLE/DISABLE signal		31 3		by electrical si							IVIIIA.
6. INTERLOCK (ILC) control										.ogic.	
				by electrical si						N/ =or -:-\	
1. / Ura arammad signals				nable signals. I	viaximum volt	lade 25V. Max	imum sink cur	rent IUUMA (F)/ :::
7. Programmed signals				ut volt				0 - 2 51/ 14			= av nositive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signals		edge triage	ow level inp	ut voltage = 0	0.8V,Minimu	m high leve	l input voltac	je = 2.5V, Ma	ıximum high s	ievei input :	31 positive
8. TRIGGER IN / TRIGGER OUT signals		edge trigge	r: tw=10us r	ninimum. Tr,	0.8V,Minimu Ff=1us Maxin	m high leve	l input voltac	je = 2.5V, Ma 2 pulses 1m	s.	ievei input :	
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8. TRIGGER IN / TRIGGER OUT signals		edge trigge By electrical \	r: tw=10us r Voltage: 0~0.	ninimum. Tr,	0.8V,Minimu Ff=1us Maxin	m high leve	l input voltac	je = 2.5V, Ma 2 pulses 1m	s.	ievei input :	or positive
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GENESYS[™] 3.4kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-340	20-170	30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
1.Rated output voltage(*1)		V	10-340	20-170	30	40	60	80	100-34	150	300	600
					112		56	42				
2.Rated output current (*2)		A W	340 (*3)	170 3400	3360	85			34	22.5	11.5	5.6 3360
3.Rated output power		W	3400	3400	3360	3400	3360	3360	3400	3375	3450	3360
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 wi	re + Ground (*4)		3-Phase, 400 3-Phase, 480	V models: 342 V models: 342	~265Vac, 47~6 !~460Vac, 47~6 !~528Vac, 47~6 ~265Vac, 47~6	63Hz (Covers 63Hz (Covers :	380/400/415\ 380/400/415/	140/460/480Va	ac)			
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models: 1-Phase, 200V models:		12.5A @ 200V 6.5A @ 380Va 6.5A @ 380Va 21A @ 200Va	ic								
	1-1 Hase, 2004 Hilodels.				30Vac, rated ou	itnut nower						
3.Power Factor (Typ)					, rated output							
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		Α	Less than 50/	1								
CONSTANT VOLTAGE MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate			-10	00	_ 00	100	150	300	000
2.Max. Load regulation (*8)			0.01% of rate									
3.Ripple and noise (p-p, 20MHz) (*	FO)	mV	75	75	75	75	80	80	100	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)	2)	mV	8	10	10	12	15	15	15	20	60	100
5.Temperature coefficient		PPM/°C			ut voltage, fol				13	20	- 00	100
6.Temperature stability					hrs interval fol				ne load & tem	ın		
7. Warm-up drift					utput voltage-					ip.		
8.Remote sense compensation/wii	re (*10)	٧	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
	No load (*12)	mS	450	600	800	900	1100	1300	2100	2000	3000	3100
11.Transient response time	110 1044 (12)	mS	Time for out	out voltage to	recover withing than 1mS, for	n 0.5% of its ra	ated output fo	or a load chan	ge 10~90% of	rated output		
12.Start up delay		Sec	Less than 6 Se	ec								
CONSTANT CURRENT MODE		٧	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate			40	00	00	100	130	300	000
2.Max. Load regulation (*13)			0.03% of rate					-				
3.Ripple r.m.s. @ rated voltage. 3-P	hase (*14)	mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-P		mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
4.htppie i.m.s. @ rated voltage. 1-1	11436 (14)	ША			rom rated out					240	312	
5.Temperature coefficient		PPM/°C			m rated outp							
6.Temperature stability					rs. interval fol					poraturo		
o. remperature stability					n +/-0.25% of r							
7. Warm-up drift					.15% of rated of					011.		
				ess than T/-0	.15% of fateu (Julpul Curren	t over 30 mm	utes following	power on.			
ANALOG PROGRAMMING AND M	ONITORING (ISOLATED	FROM '	THE OUTPUT)									
1.Vout voltage programming					ser selectable.							-
2.lout voltage programming (*15)					ser selectable.							
3. Vout resistor programming					scale, user sele							
4.lout resistor programming (*15)					scale, user sele		racy and linea	rity: +/-0.5% c	of rated lout.			
5.Output voltage monitor					able. Accuracy							
6.Output current monitor (*15)			0~5V or 0~10	V, user select	able. Accuracy	r: +/-0.5%.						
SIGNALS AND CONTROLS (ISOLAT	TED FROM THE OUTPU	T)										
1. Power supply OK #1 signal			Power supply	output mon	itor. Open coll	ector. Output	On: On. Outr	out Off: Off. Ma	aximum Volta	ge: 30V. Maxin	num Sink Curr	ent: 10mA.
2. CV/CC signal					ctor. CC mode							
3. LOCAL/REMOTE Analog control					gramming co							pen.
4. LOCAL/REMOTE Analog signal					ol monitor sign							•
5. ENABLE/DISABLE signal					by electrical si							
						gnai or dry co	ntact. 0~0.6\	or snort, 2~30	UV or open. U	ser selectable	logic.	
6. INTERLOCK (ILC) control			Enable/Disab	le PS output	by electrical si						logic.	
6. INTERLOCK (ILC) control 7. Programmed signals					by electrical si nable signals. <i>I</i>	gnal or dry co	ntact. Remot	e: 0~0.6V or sh	nort. Local: 2~	30V or open.		
7. Programmed signals	alc		Two open dra Maximum lo	ain programm ow level inp	nable signals. N ut voltage = 0	gnal or dry co Maximum volt D.8V,Minimu	ntact. Remot tage 25V, Max m high leve	e: 0~0.6V or sh imum sink cur I input voltac	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signa	als		Two open dra Maximum lo edge trigge	ain programm ow level inport r: tw=10us n	nable signals. <i>N</i> ut voltage = (ninimum. Tr,1	gnal or dry co Maximum volt D.8V,Minimu Tf=1us Maxir	ntact. Remot tage 25V, Max m high leve	e: 0~0.6V or sh imum sink cur I input voltac	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal	als		Two open dra Maximum lo edge trigge By electrical	ain programm ow level inpor: tw=10us n Voltage: 0~0.	nable signals. <i>N</i> ut voltage = 0 ninimum. Tr, 7 6V/2~30V or di	gnal or dry co Maximum volt D.8V,Minimu Tf=1us Maxir	ntact. Remot tage 25V, Max m high leve	e: 0~0.6V or sh imum sink cur I input voltac	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signa	als		Two open dra Maximum lo edge trigge By electrical	ain programm ow level inpor: tw=10us n Voltage: 0~0.	nable signals. <i>I</i> ut voltage = (ninimum. Tr,1	gnal or dry co Maximum volt D.8V,Minimu Tf=1us Maxir	ntact. Remot tage 25V, Max m high leve	e: 0~0.6V or sh imum sink cur I input voltac	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
8. TRIGGER IN / TRIGGER OUT signa 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal	als		Two open dra Maximum lo edge trigge By electrical	ain programm ow level inpor: tw=10us n Voltage: 0~0.	nable signals. <i>N</i> ut voltage = 0 ninimum. Tr, 7 6V/2~30V or di	gnal or dry co Maximum volt D.8V,Minimu Tf=1us Maxir	ntact. Remot tage 25V, Max m high leve	e: 0~0.6V or sh imum sink cur I input voltac	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signa 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	als		Two open dra Maximum la edge trigge By electrical ' 4~5V=OK, 0V	ain programm ow level inpor: tw=10us n Voltage: 0~0.0 (500ohm im	nable signals. <i>N</i> ut voltage = 0 ninimum. Tr, 7 6V/2~30V or di	gnal or dry co Maximum volt D.8V,Minimu If=1us Maxir ry contact.	ntact. Remot tage 25V, Max m high leve num, Min de	e: 0~0.6V or sk iimum sink cur I input voltag elay between	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	als		Two open dra Maximum la edge trigge By electrical 4~5V=OK, 0V	ain programm ow level inport: tw=10us n Voltage: 0~0.0 (5000hm import)	nable signals. <i>I</i> ut voltage = (ninimum. Tr, T 6V/2~30V or di pedance)=Fail	gnal or dry co Maximum volt D.8V,Minimu If=1us Maxir ry contact.	ntact. Remot tage 25V, Max m high leve num, Min de Refer to instr	e: 0~0.6V or sk iimum sink cur I input voltag elay between	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/50 control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	als		Two open dra Maximum la edge trigge By electrical 4~5V=OK, 0V Possible. Up 1 Possible. Two	ain programm bw level inp r: tw=10us n Voltage: 0~0. ' (500ohm im to 4 identical	nable signals. <i>I</i> ut voltage = 0 ninimum. Tr, 7 6V/2~30V or di pedance)=Fail units in Maste	gnal or dry co Maximum volt D.8V,Minimu If=Ius Maxir ry contact. r/Slave mode. truction man	ntact. Remot tage 25V, Max m high leve num, Min de Refer to instr ual.	e: 0~0.6V or sh imum sink cur I input voltac elay between uction manua	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m	30V or open. Shunted by 27 eximum high	'V zener)	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	als		Two open dra Maximum la edge trigge By electrical 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli	ain programm ow level inpi r: tw=10us n Voltage: 0~0.0 (500ohm imp to 4 identical i identical uni es can be con	nable signals. Nat voltage = 0 ninimum. Tr, 16 V/2~30V or dipedance)=Fail units in Masterts. Refer to ins	gnal or dry co Maximum voli D.8V,Minimu If=1us Maxir ry contact. r/Slave mode. truction manisy chain to syr	ntact. Remot tage 25V, Max m high leve num, Min de Refer to instr ual.	e: 0~0.6V or shimum sink cur I input voltagilay between uction manua	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m	30V or open. Shunted by 27 aximum high is.	V zener) level input =	= 5V positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	als	 	Two open dra Maximum lo edge trigge By electrical 4~5V=OK, 0V Possible. Up Possible. Two Power suppli Limits the ou	nin programm ow level inpir: tw=10us n Voltage: 0~0.0 ' (500ohm impire to 4 identical unites can be contput power to	hable signals. Notage = (ninimum. Tr, 1 6V/2~30V or dipedance)=Fail units in Masterts. Refer to insinected in Dais	gnal or dry co Maximum volt D.8V,Minimu If=1us Maxir ry contact. rr/Slave mode. truction man sy chain to syr ned value. Pro	ntact. Remot tage 25V, Max m high leve num, Min de Refer to instr ual. nchronize the	e: 0~0.6V or shimum sink cur I input voltagelay between uction manua ir turn-on and a the commun	nort. Local: 2~ rrent 100mA (ge = 2.5V, Ma 2 pulses 1m l. turn-off. sication ports	30V or open. Shunted by 27 eximum high is.	V zener) level input =	= 5V positive
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7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBAR RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16 2. lout programming accuracy (*15 3. Vout programming resolution	CK (USB, LAN, (*20) Interfaces)		Two open dra Maximum Ik edge trigge By electrical' 4~5V=OK, 0V Possible. Up: Possible. Two Power suppli Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.1% of actua 0.002% of rat	sin programm ww level inpur ww level inpur ww level inpur ri twe=10us in volutage: 0~0.0 (5000hm imu to 4 identical uni es can be com tput power te es resistance le Output rise no ports or ti to 100 steps 20 d output volt l output curre ed output vor	hable signals. Nut voltage = (ninimum. Tr, 1 sV/2~30V or di pedance)=Fail units in Master ts. Refer to ins a proggramn Resistance rai and Output f er front panel. can be stored 30 age ent+0.2% of rail ltage	gnal or dry co Maximum volto Jos W, Minimu ff=1 us Maxim ry contact. //Slave mode. truction man ry chain to syr ned value. Pro- nge: 1~1000r all slew rate. F. in 4 memory d	ntact. Remot tage 25V, Max m high leve num, Min de Refer to instr ual. hethronize the gramming vi nΩ. Programr programming cells. Activatio	e: 0~0.6V or shimm sink cuit input voltage lay between uction manua ir turn-on and a the communing via the corange: 0.0001	nort. Local: 2~ rrent 100mA (pe = 2.5V, May 2 pulses 1m I. turn-off. isication ports bommunication ~999.99 V/mS and via the com	30V or open. Shunted by 27 siximum high is. or the front pan ports or the free, or A/mSec	V zener) level input = anel. front panel. . Programmin orts or by the	g via the front panel.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBAC RS232/485, Optional IEEE(*19) 1. Vout programming accuracy (*16 2. lout programming resolution 4. lout programming resolution 4. lout programming resolution	CK (USB, LAN, (*20) Interfaces)		Two open dra Maximum Ik edge trigge By electrical' 4~5V=OK, 0V Possible. Up: Possible. Two Power supplii Limits the ou Emulates ser Programmab communicat Profiles of up 10 0.05% of rate 0.002% of rat	sin programm ww level inpipro ww level i	able signals. Nut voltage = (ninimum. Tr, 7) SV/2~30V or di pedance)=Fail units in Master ts. Refer to insinected in Dais a proggramn Resistance rae and Output free front panel. can be stored 30 age age ent+0.2% of ra litage rrent	gnal or dry co Maximum volto Jos W, Minimu ff=1 us Maxim ry contact. //Slave mode. truction man ry chain to syr ned value. Pro- nge: 1~1000r all slew rate. F. in 4 memory d	ntact. Remot tage 25V, Max m high leve num, Min de Refer to instr ual. hethronize the gramming vi nΩ. Programr programming cells. Activatio	e: 0~0.6V or shimm sink cuit input voltage lay between uction manua ir turn-on and a the communing via the corange: 0.0001	nort. Local: 2~ rrent 100mA (pe = 2.5V, May 2 pulses 1m I. turn-off. isication ports bommunication ~999.99 V/mS and via the com	30V or open. Shunted by 27 siximum high is. or the front pan ports or the free, or A/mSec	V zener) level input = anel. front panel. . Programmin orts or by the	g via the front panel.
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TDK·Lambda-

GENESYS[™] 5kW SERIES SPECIFICATIONS

OUTPUT RATING		_	10 500	20.250	20 170	40 125	EO 100	60.05	90 65	100 F0	150.24	200.25	200 17	400 12	E00 10	600 0 5
1.Rated output voltage(*1)		G V	10-500	20-250	30-170 30	40-125	50-100	60-85	80-65 80	100-50	150-34 150	200-25	300-17 300	400-13	500-10 500	600-8.5
2.Rated output current (*2)		A	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1	.: C						~63Hz (Co			/\						
1.Input voltage/freq. 3 phase, 3 w	rre + Ground (*4)						7~63Hz (C			/ac) 40/460/48	201/1					
	3-Phase, 200V models:		3-Phase, 17.5A @ 2		ieis: 342~	528Vac, 47	~63HZ (Co	overs 380/	400/415/4	40/460/48	suvac)					
2. Maximum Input current at	3-Phase, 400V models:		9.2A @ 38													
100% load	3-Phase, 480V models:		9.2A @ 38													
3.Power Factor (Typ)	5 Thase, 400 Villoueis.				rated ou	tput powe	-r									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)		91	91	90	91	91	91	91	91	92	92	92	92
5.Inrush current (*6)		A	Less than													
CONSTANTAGEMORE					20	10			- 00	100	150	200	200	400	500	600
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					put voltag											
2.Max. Load regulation (*8)			0.01% of	rated out	put voltag	e +5mV										
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C	50PPM/°	C from rat	ed output	voltage, i	following	30 minute	s warm-u	p.						
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.				
7. Warm-up drift			Less than	0.05% of	rated out	put voltac	ie+2mV ov	er 30 min	utes follo	wing pow	er on.					
8.Remote sense compensation/w	vire (*10)	v	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	/	mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
stop prograciponise time (11)	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time:					_	_	_		_	_						_
	No load (*12)	mS	300	600	800	900	950	1000	1200	1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS	10~100%	output vo	ntage to re	ecover wit	nin 0.5% o	or its rated	output fo	or a load cl	nange 10~	yu% of ra	tea outpu	at current.	Output se	et-point:
12.Start up delay		Sec	Less than		inc. Less l		or model	ap to all	u mcluulli	9 1007.21	110, 101 1110	acis abuv	C 100V.	-		
			Less HIdh	J JEL												
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.05% of	rated out	put currer	nt.										
2.Max. Load regulation (*13)			0.08% of	rated out	put currer	nt.										
3.Ripple r.m.s. @ rated voltage. B.	W 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
			10V~100\	V 100PI	PM/°C fro	m rated o	utput curr	ent, follov	ving 30 m	inutes war	m-up.					
5.Temperature coefficient		PPM/°C								utes warn						
6.Temperature stability							-			p. Constar		d & tempe	erature			
on emperature stability			_							0 minutes						
7. Warm-up drift										utes follov						
			1300~00	ov: Less ti	1d[1 +/-U.1	5% OI Tale	a output c	urrent ov	er so mim	ites ioliov	ving powe	er on.				
ANALOG PROGRAMMING AND N	MONITORING (ISOLATED	FROM T	HE OUTPU	UT)												
1.Vout voltage programming			0~100%,	0~5V or 0	~10V, use	r selectab	le. Accura	cy and lin	earity: +/-	0.15% of ra	ated Vout.					
2.lout voltage programming (*15	5)		0~100%.	0~5V or 0	~10V. use	r selectab	le. Accura	cv and line	earity: +/-	0.4% of rat	ted lout.					
	<i>'</i>									rity: +/-0.5		d Vout.				
13.Vout resistor programming																
3.Vout resistor programming (*15	3)					ale users					% of rate					
4.lout resistor programming (*15	i)		0~100%,	0~5/10Ko	hm full sc		electable.	Accuracy	and linea	rity: +/-0.5	% of rate					
4.lout resistor programming (*15 5.Output voltage monitor	i)		0~100%, 0~5V or 0	0~5/10Ko 0~10V, use	hm full so er selectab	le. Accura	electable. acy: +/-0.5	Accuracy % of rated	and linea Vout.		5% of rated					
4.lout resistor programming (*15	5)		0~100%, 0~5V or 0	0~5/10Ko 0~10V, use	hm full so er selectab	le. Accura	electable.	Accuracy % of rated	and linea Vout.		5% of rate					
4.lout resistor programming (*15 5.Output voltage monitor			0~100%, 0~5V or 0	0~5/10Ko 0~10V, use	hm full so er selectab	le. Accura	electable. acy: +/-0.5	Accuracy % of rated	and linea Vout.		5% of rated					
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15)			0~100%, 0~5V or 0 0~5V or 0	0~5/10Ko)~10V, use)~10V, use	ohm full so er selectak er selectak	ole. Accura ole. Accura	electable. acy: +/-0.5 acy: +/-0.5	Accuracy % of rateo % of rateo	and linea I Vout. I lout.			d lout.	: 30V, Max	kimum Sin	k Current:	: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA		 	0~100%, 0~5V or 0 0~5V or 0	0~5/10Ko 0~10V, use 0~10V, use	hm full sc er selectak er selectak out monito	ole. Accura ole. Accura or. Open c	electable. acy: +/-0.5 acy: +/-0.5 ollector. O	Accuracy % of rated % of rated utput On:	and linea I Vout. I lout. On. Outp	rity: +/-0.5	. Maximur	d lout. m Voltage			k Current:	: 10mA.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal	ATED FROM THE OUTPUT	 	0~100%, 0~5V or 0 0~5V or 0	0~5/10Ko)~10V, use)~10V, use pply outp onitor. Op	ohm full sc er selectab er selectab out monito een collect	ole. Accura ole. Accura or. Open co	electable. acy: +/-0.5 acy: +/-0.5 ollector. O de: On. CV	Accuracy % of rateo % of rateo utput On: / mode: O	and linea I Vout. I lout. On. Outp	ut Off: Off um Voltag	f. Maximur e: 30V, Ma	m Voltage ximum Sir	nk Current	t: 10mA.		
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	ATED FROM THE OUTPUT	 	0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC Me Enable/D	0~5/10Ko 0~10V, use 0~10V, use pply outp onitor. Op	ohm full sc er selectab er selectab out monito en collect alog prog	ole. Accura ole. Accura or. Open co cor. CC mo ramming	electable. acy: +/-0.5 acy: +/-0.5 ollector. O de: On. CV	Accuracy % of rateo % of rateo utput On: / mode: O	ond linea Vout. I lout. On. Outp	ut Off: Off um Voltag dry contact	f. Maximur e: 30V, Ma ct. Remote	m Voltage ximum Sir	nk Current or short. Lo	t: 10mA. ocal: 2~30	V or open	1.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) ISIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	ATED FROM THE OUTPUT	 r) 	0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC Me Enable/D analog pr	0~5/10Ko 0~10V, use 0~10V, use pply outp onitor. Op disable and	ohm full so er selectab er selectab out monito en collect alog prog ng control	ole. Accura or. Open coror. CC mo ramming o	electable. acy: +/-0.5 acy: +/-0.5 collector. O de: On. CV control by ignal. Ope	Accuracy % of rateo % of rateo utput On: / mode: O electrical	and linea I Vout. I lout. On. Outp ff. Maximu signal or r. Remote:	ut Off: Off um Voltag dry contac	f. Maximur e: 30V, Ma ct. Remote Off. Maxir	m Voltage ximum Sir 2: 0~0.6V c	nk Current or short. Lo ge: 30V, M	t: 10mA. ocal: 2~30 Iaximum S	V or open	1.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	ATED FROM THE OUTPUT	 	0~100%, 0~5V or 0 0~5V or 0 Power su CV/CC Mo Enable/D analog pr Enable/D	0~5/10Ko 0~10V, use 0~10V, use pply outp onitor. Op disable and rogrammin disable PS	ohm full so er selectab er selectab out monito en collect alog prog ng control output by	or. Open cor. CC moramming of monitors	electable. acy: +/-0.5 acy: +/-0.5 collector. O de: On. CV control by ignal. Ope	Accuracy % of rateo % of rateo utput On: / mode: O electrical n collecto dry conta	and linea I Vout. I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V	ut Off: Off um Voltag dry contac On. Local:	f. Maximur e: 30V, Ma ct. Remote Off. Maxir 2~30V or c	m Voltage ximum Sir 2: 0~0.6V c num Volta open. User	nk Current or short. Lo ge: 30V, M selectabl	t: 10mA. ocal: 2~30 laximum S le logic.	V or open	1.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4.LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control	ATED FROM THE OUTPUT	 T) 	0~100%, 0~5V or C 0~5V or C Power su CV/CC Me Enable/D analog pr Enable/D Enable/D	0~5/10Ko 0~10V, use 0~10V, use pply outponitor. Op 0isable and rogrammin 0isable PS 0isable PS	er selectaber selectab	or. Open cor. CC moramming monitors	electable. acy: +/-0.5 acy: +/-0.5 collector. O de: On. CV control by ignal. Ope l signal or	Accuracy % of ratec % of ratec utput On: / mode: O electrical n collecto dry conta	and linea I Vout. I lout. On. Outp ff. Maximu signal or r. Remote: ct. 0~0.6V ct. Remot	ut Off: Off um Voltag dry contac On. Local: or short,	f. Maximur e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Le	m Voltage ximum Sir e: 0~0.6V c num Volta open. User ocal: 2~30	nk Current or short. Lo ge: 30V, M selectabl V or open	t: 10mA. ocal: 2~30 laximum S le logic. n.	V or open ink Currer	1.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals	ATED FROM THE OUTPUT	 	0~100%, 0~5V or C 0~5V or C 0~5V or C Power su CV/CC Ma Enable/D analog pr Enable/D Enable/D Two open	0~5/10Ko 0~10V, use 0~10V, use 0~10V, use pply outp onitor. Op bisable and rogrammin bisable PS bisable PS n drain pro	ohm full scenselectaker selectaker selectake	or. Open coor. CC mo ramming of monitor so relectrical of electrical of electrical of the signals.	electable. acy: +/-0.5 acy: +/-0.5 collector. O de: On. CV control by ignal. Ope l signal or l signal or s. Maximu	Accuracy % of ratec % of ratec utput On: / mode: O electrical n collecto dry conta dry conta m voltage	and linea l Vout. l lout. c On. Outp ff. Maximus signal or r. Remote: ct. 0~0.6V ct. Remote:	ut Off: Off um Voltag dry contac On. Local: or short, : e: 0~0.6V c imum sink	f. Maximur e: 30V, Ma ct. Remote Off. Maxir 2~30V or c or short. Lo	m Voltage ximum Sir e: 0~0.6V c num Volta ppen. User ocal: 2~30 00mA (Sh	or short. Lo ge: 30V, M selectabl V or open unted by	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener	V or open ink Currer	nt: 10mA.
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4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) ISIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_OUT/PS_OK #2 signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBA RS232/485, Optional IEEE(*19 1.Vout programming accuracy (*1 2.lout programming accuracy (*1 3.Vout programming resolution 4.lout programming resolution 4.lout programming resolution	ATED FROM THE OUTPUT In all ACK (USB, LAN, 1972) (120) Interfaces)		0~100%, 0~5V or 0 0 Power su Enable/D analog pr Enable/D Two oper Maximu Maximu Maximu Possible. Possible. Power su Limits the Emulates Program commun Profiles o 0.05% of a 0.002% o 0.002% o	0~5/10Ko 0~10V, use 0~10V, use 0~10V, use pply outp onitor. Op bisable ana rogrammin bisable PS bisable PS of drain pro male of the properties cal Voltage C, OV (5000 Up to twe Two ident pplies can e output p e series res mable Ou ication pc of up to 10 20 rated out f rated out f rated out f rated out	which full scenarios and the full scenarios a	one. Accuration of the Accurat	electable. acy: +/-0.5 acy: +/-0.5 bllector. O de: On. C\ control by ignal. Ope isignal or signal or s	Accuracy % of ratec % of ratec % of ratec wutput On: / mode: O electrical n collecto dry conta dry conta dry conta ry coltage m voltage nimum F r,Tf=1us I cct. er/Slave n n manual. to synchr ue. Progra 1000m\text{\text{\$\chi_{o}}} rate. Prog mory cells	and linea I Vout. I lout. On. Outp ff. Maximus signal or r. Remote: ct. 0~0.6V ct. Remote: 25V, Max igh level Maximun node. Refe mming vi. Programn ramming . Activatic	ut Off: Off um Voltag dry contac On. Local: or short, e: 0~0.6V c imum sink input vo n, Min del	. Maximur e: 30V, Ma ct. Remote Off. Maxim 2~30V or c or short. Li current 1 Itage = 2 lay betwee ction man and turn-c munication ecommun 001~999.5	m Voltage ximum Sir e: 0~0.6V c num Voltat open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul ual. For m off. n ports or nication p 99 V/mSec	nk Current or short. Lo ge: 30V, M selectabl V or open unted by: mum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level ir r please co panel. e front pa ec. Progra	V or open ink Currer) nput = 5V onsult with mel. mming vi	h Factory.
4.lout resistor programming (*15 5.Output voltage monitor 6.Output current monitor (*15) SIGNALS AND CONTROLS (ISOL/ 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_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 5.Vout readback accuracy	ATED FROM THE OUTPUT In als ACK (USB, LAN, 1920) Interfaces) 16)		0~100%, 0~5V or 0 0 Power su Enable/D analog pr Enable/D Two oper Maximu Maximu Maximu Possible. Possible. Power su Limits the Emulates Program commun Profiles o 0.05% of a 0.002% o 0.002% o	0~5/10Ko 0~10V, use 0~10V, use 0~10V, use pply outponitor. Op bisable and orgammin bisable PS bisable PS or drain pro m low le edge trig ical Voltage X, OV (500c) Up to twee Two ident pplies car e output p series rese mable Out cation pc frup to 10 20 rated out frated out frated out arted out arted out arted out arted out arted out arted out	when full scens selectable reselectable research rese	one. Accuration of the Accurat	electable. acy: +/-0.5 acy: +/-0.5 bllector. O de: On. C\ control by ignal. Ope isignal or signal or s	Accuracy % of ratec % of ratec % of ratec wutput On: / mode: O electrical n collecto dry conta dry conta dry conta ry coltage m voltage nimum F r,Tf=1us I cct. er/Slave n n manual. to synchr ue. Progra 1000m\text{\text{\$\chi_{o}}} rate. Prog mory cells	and linea I Vout. I lout. On. Outp ff. Maximus signal or r. Remote: ct. 0~0.6V ct. Remote: 25V, Max igh level Maximun node. Refe mming vi. Programn ramming . Activatic	ut Off: Off um Voltag dry contac On. Local: or short, e: 0~0.6V c imum sink input vo n, Min del	. Maximur e: 30V, Ma ct. Remote Off. Maxim 2~30V or c or short. Li current 1 Itage = 2 lay betwee ction man and turn-c munication ecommun 001~999.5	m Voltage ximum Sir e: 0~0.6V c num Voltat open. User ocal: 2~30 00mA (Sh .5V, Maxi een 2 pul ual. For m off. n ports or nication p 99 V/mSec	nk Current or short. Lo ge: 30V, M selectabl V or open unted by: mum hig ses 1ms.	t: 10mA. ocal: 2~30 laximum S le logic. n. 27V zener gh level ir r please co panel. e front pa ec. Progra	V or open ink Currer) nput = 5V onsult with mel. mming vi	h Factory.
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GENESYS™ 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	50	60	80	100	150	200	300	40	0	500	600
1.Foldback protection			Output sh User pres	nut-down etable. Re	when po	wer suppl	y changes r ycle in auto	node fron	n CV or Po le, by Pov	ower Limit ver Switch	to CC mo	de or fron UT buttoı	n CC or Po n, by rear	wer Lim	nit to C	V mode.	cation.
2.Over-voltage protection (OVP)			Output sh	nut-down	. Reset by	AC input	recycle in a	utostart n	node, by	OUTPUT b	utton, by	rear pane	l or by co	nmunic	ation.		
3.Over -voltage programming rang	ge	V	0.5~12	1~24	2~36	2~44.1	5-55.125	5~66.15	5~88.2	5~110.2	5 5~165.3	7 5~220.	5 5~330.	75 5~4	41 5	~551.25	5~661.5
4. Over-voltage programming accu	ıracy		+/-1% of r	ated outp	ut voltag	ie											
5.Output under voltage limit (UVL)							mit. Does n		n analog į	programn	ning. Prese	t by front	panel or	commu	nicati	on port.	
6.Over temperature protection			Shuts dov	vn the ou	tput. Auto	recovery	by autosta	rt mode.									
7. Output under voltage limit (UVL)			Prevents	adjustme	nt of Vout	below lin	nit.										
8. Output under voltage protection	n (UVP)		Prevents mode, by	adjustme Power Sv	nt of Vout vitch, by C	below lim	nit. P.S outp utton, by re	ut turns C ar panel c	off during or by com	under vo municatio	ltage cond on.	dition. Res	et by AC	nput re	cycle i	n autost	art
FRONT PANEL																	
1.Control functions			Multiple	options w	ith 2 Enco	ders											
			Vout/lout														
			OVP/UVL	/UVP man	ual adjus	t											
			Protectio	n Functio	ns - OVP, l	JVL,UVP, F	oldback, O	CL, ENA, II	LC								
			Commun	ication Fu	nctions -	Selection	of LAN,IEEE	,RS232,RS	485,USB	or Option	al commu	nication i	nterface.				
			Output O	N/OFF. Fr	ont Panel	Lock.											
			Commun	ication Fu	nctions -	Selection	of Baud Rat	te, Addres	s, IP and	communi	cation lang	guage.					
			Analog Co	ontrol Fur	nctions - S	Selection V	/oltage/resi	istive prog	gramming	g, 5V/10V,	5K/10K pro	ogrammii	ng				
							of Voltage/			5V/10V.							
2.Display							output vol										
							utput curre										
3.Front Panel Buttons Indications			OUTPUT (ON, ALAR	M, PREVIE	W, FINE, C	OMMUNIC	ATION, PR	OTECTIO	N,CONFIG	URATION,	SYSTEM,	SEQUENC	ER.			
4. Front Panel Display Indications			Voltage, ((commun	Current, P lication), F	ower, CV, RS/USB/L	CC, CP, Ext AN/IEEE co	ternal Volta mmunicati	ge, Exterr on, Trigge	nal Currer er, Load/S	nt, Addres store Cell.	s, LFP, Aut	ostart, Sai	fetstart, F	oldback	V/I, R	emote	
ENVIRONMENTAL CONDITIONS																	
1.Operating temperature			0~50°C, 1	00% load													
2.Storage temperature			-30~85°C														
3.Operating humidity		%	20~90% F		adonestio	· m \											
		_															
4.Storage humidity		%	10~95% F														
5.Altitude (*17)			Operating	g: 10000ft	(3000m),	output cu	rrent derat	ing 2%/10	0m or Ta	derating 1	°C/100m a	above 200	0m. Non	operatin	ng: 400	000ft (120	000m).
MECHANICAL																	
1.Cooling			Forced ai	r cooling l	by interna	al fans. Air	flow direct	ion: from	Front pan	el to pow	er supply	rear					
2.Weight		kg	2.7kW/3.4	kW - Less	than 6.25	5kg.			5kW - Le	ess than 7.	5kg.						
3.Dimensions (WxHxD)		mm					busbars ar busbars a				to Outlin	e drawin	g).				
4.Vibration			MIL-810G	, method	514.6, Pro	cedure I, t	est conditi	on Annex	C - 2.1.3.1								
5.Shock			Less than	20G, half	sine, 11m	Sec. Unit i	s unpacked	l.									
SAFETY/EMC	a.c.		lun acces														
1.Applicable standards:	Safety)10-1, EN61										
1.1. Interface classification							, J5, J6, J7, J ense) are ha								Non H	azardou	s.
1.2 Withstand voltage			Input - G 60V≤Vou Output & Output & 100V <vo Output &</vo 	round: 28 It≤100V M J8 (sens J8 (sens ut≤600V J8 (sens J8 (sens	335VDC Models: In se) - J1, J se) - Grou Models: se) - J1, J se) - Grou	1min. nput – Ou 2, J3, J4, ınd: 1500 Input – O 2, J3, J4, ınd: 2500	J8 (sense) tput & J8 (J5, J6, J7 VDC 1min, utput & J8 J5, J6, J7 VDC 1min.	sense), J & J9 (cor , Input - G (sense), , & J9 (cor	1, J2, J3 nmunica Ground: 2	, J4, J5, J ition optice	16, J7 & J9 ons): 850\ 1min.	9 (commu /DC 1min	unication	options	s): 424	12VDC 1	
1.3 Insulation resistance			100Mohn	n at 25°C,	70%RH. C	Output to	Ground 50	0VDC									
2.Conducted emmision							, Annex H t		FCC Part	15-A, VCC	I-A.						
3.Radiated emission							, Annex H t									-	
	EMC(*18)					vironment					.,,						
	-1 :=/		, = =, =, 101,	, . Ju													

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

NOTES:

- NOTES:

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

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

 * 3: G5KW: Derate 5A/1°C above 40°C

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

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

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

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

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

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

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

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

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

 * 14: For 10V model, the ripple is measured at 20-100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.

 * 16: Measured at the sensing point.

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

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

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

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

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

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

TDK·Lambda ——

GENESYS[™] **GSP10kW SERIES SPECIFICATIONS**

CONTRINTION	91 91 91 91 91 91 91 91 91 91 91 91 91 9	600- 600- 17 10. 60 92 60 48 10 5 10 20 300
A 1000 (*3) 500 340 250 200 170 130 100 68 50 34 226 238 246	91 91 91 91 91 91 91 91 91 91 91 91 91 9	922 600 488 100 5 100 200 300
See	91 91 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	922 600 488 100 5 100 200 300
3.Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/230Vac)	91 91 91 91 91 91 91 91 91 91 91 91 91 9	922 600 488 100 50 100 200 300
3.Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/230Vac)	91 91 91 91 91 91 91 91 91 91 91 91 91 9	922 600 488 100 50 100 200 300
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4) 3-Phase, 400V models: 342-460Vac, 47-63Hz (Covers 380/400/415Vac) 3-Phase, 400V models: 342-528Vac, 47-63Hz (Covers 380/400/415Vac) 3-Phase, 400V models: 342-528Vac, 47-63Hz (Covers 380/400/415Vac) 3-Phase, 400V models: 3-Ph	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
3-Phase, 480V models:	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
2. Max Line regulation (°F)	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
18.4A@ 380Vac 18.4A@ 380Va	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
18.4A @ 380Vac 3.Power Factor (Typ)	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
A.Efficiency (Typ) (*5) (*22)	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
Sinrush current (*6)	5 5 100 100 11 200 2 2 0 4000 31	5 10 20 3000
CONSTANT VOLTAGE MODE V 10 20 30 40 50 60 80 100 150 200 300 40	5 0 100 1 0 200 2 0 4000 34	48 10 5 10 20 300
CONSTANT VOLTAGE MODE	5 0 100 1 0 200 2 0 4000 34	48 10 5 10 20 300
1.Max. Line regulation (*7)	5 0 100 1 0 200 2 0 4000 34	48 10 5 10 20 300
1.Max. Line regulation (*7)	5 0 100 1 0 200 2 0 4000 34	48 10 5 10 20 300
2.Max. Load regulation (*8)	5 0 100 1 0 200 2 0 4000 30	5 10 20 300
3.Ripple and noise (p-p, 20MHz) (*9)	5 0 100 1 0 200 2 0 4000 30	5 10 20 300
4.Ripple r.m.s. 5Hz−1MHz (*9)	5 0 100 1 0 200 2 0 4000 30	5 10 20 300
STEMPERATURE COEfficient SOPPM/°C SOPPM/°C From rated output voltage, following 30 minutes warm-up.	5 0 100 1 0 200 2 0 4000 30	5 10 20 300
6.Temperature stability 0.01% of rated Vout over 8hrs interval following 30 minutes warm-up. Constant line, load & temp. 7. Warm-up drift Less than 0.05% of rated output voltage+2mV over 30 minutes following power on. 8. Remote sense compensation/wire (*10) V 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100 1 100 200 2 0 4000 30	10 20 300
7. Warm-up drift	100 1 100 200 2 0 4000 30	10 20 300
8.Remote sense compensation/wire (*10) V 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100 1 100 200 2 0 4000 30	10 20 300
Sup-prog. Response time (*11)	100 1 100 200 2 0 4000 30	10 20 300
10.Down-prog.response time: Full load (*11) mS 50 50 80 80 80 80 100 100 100 100 100 100 100 150 150 100 11.	200 2 0 4000 30	20 300
11. 10.	0 4000 30	300
11.Transient response time ms Time for output voltage to recover within 0.5% of its rated output for a load change 10−90% of rated output curre 10~100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V. 12.Start up delay Sec Less than 7 Sec CONSTANT CURRENT MODE 1.Max. Line regulation (*7) 2.Max. Load regulation (*13) 3.Ripple r.ms. @ 10% rated voltage. B.W 5Hz~1MHz. (*14) MA 1500 1200 600 300 200 150 100 70 45 45 15 15 15 4. A. Ripple r.ms. @ 100% rated voltage. B.W 5Hz~1MHz. (*14) Ma 1500 700 300 150 100 75 50 35 23 23 7.5 7.5 7.5 1. A. Ripple r.ms. @ 100% rated voltage. B.W 5Hz~1MHz. (*14) MB 1500 100 700 300 150 100 75 50 35 23 23 7.5 7.5 1. A. Ripple r.ms. @ 100% rated voltage. B.W 5Hz~1MHz. (*14) MB 1500 100 700 300 150 100 75 50 35 23 23 7.5 7.5 1. A. Ripple r.ms. @ 100% rated voltage. B.W 5Hz~1MHz. (*14) MB 1500 100 100 PPM/°C from rated output current, following 30 minutes warm-up.		
10-100%, Local sense. Less than 1mS, for models up to and including 100V. 2mS, for models above 100V.		
12. Start up delay Sec Less than 7 Sec		_
1.Max. Line regulation (*7) 0.05% of rated output current. 0.05% of rated output current. 0.08% of rated outp		
1.Max. Line regulation (*7) 0.05% of rated output current. 0.05% of rated output current. 0.08% of rated outp		
2.Max. Load regulation (*13) 3.Ripple r.m.s. @ 10% rated voltage. B.W 5Hz~1MHz. (*14) 4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C) 4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C) 4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C) 5.Tamperature coefficient 5.Tamperature coefficient 6.DAM/PC 10V~100V 100PPM/PC from rated output current, following 30 minutes warm-up.		
3.Ripple r.m.s. @ 10% rated voltage. B.W 5Hz~1MHz. (*14) mA 1500 1200 600 300 200 150 100 70 45 45 15 15 4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C) mA 1200 700 300 150 100 75 50 35 23 23 7.5 7.5 Tamperature coefficient 100% rated output current, following 30 minutes warm-up.		
4.Ripple r.m.s. @ 100% rated voltage. B.W 5Hz~1MHz. (TA25°C) MA 1200 700 300 150 100 75 50 35 23 23 7.5 7.5 Temperature coefficient 10V~100V 100PPM/°C from rated output current, following 30 minutes warm-up.	12	- 10
5. Temperature coefficient PDM/9C 10V-100V 100PPM/9C from rated output current, following 30 minutes warm-up.		10
	8	6
6.Temperature stability 0.01% of rated loud over 8hrs, interval following 30 minutes warm-up. Constant line, load & temperature.		
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.		
ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)		
1.Vout voltage programming 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.		
2.lout voltage programming (*15) 0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.		
3.Vout resistor programming 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.		
4.lout resistor programming (*15) 0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.		
5.Output voltage monitor 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated Vout.		
6.Output current monitor (*15) 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%. Of rated lout.		
SIGNALS AND CONTROLS (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 S	ink Current: 10m/	mΔ
2. CV/CC Signal CV/CC Monitor, Open collector, CC mode: On, CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10m.	inceditent. Tomi	1117 (.
Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.69 or a fable/Disable analog programming control by electrical signal or dry contact.	30V or open	
LIGAL/REMOTE Analog signal analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Voltage: 3		: 10m
5. ENABLE/DISABLE signal Enable/Disable Ps output by electrical signal or dry contact. 0~0.6V or short, 2~30V or open. User selectable logic		
Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.		
7. Programmed signals — Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zer	er)	
Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high level		ositi
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		
2. Series operation Consult with ractory		
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		
Programmable Output rise and Output fall slaw rate Programming range: 0.0001, 000.000 V/mSec. or 4/mSec. Or 6/mSec. Programming range: 0.0001, 000.000 V/mSec. or 6/mSec.	anel	ne .
6. Slew rate control		i C
7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of	ramming via the	anel
PROCEDAMMING AND READDAGY (ISER LAN	r by the front pan	
7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 40 Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports of Profile	r by the front pan	anel
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 40	r by the front pan	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 40 1.Vout programming accuracy (*16) 0.05% of rated output voltage 0.05% of rated output voltage	r by the front pan	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 40 1.Vout programming accuracy (*16) 0.05% of rated output voltage 0.05% of rated output voltage	r by the front pan	
PROGRAMMING AND READBACK (USB, LAN, R5232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 40 40 1.00 150 200 300 40 100 150 200 300 40 150 200 300 40 150 200 300 40 150 200 300 40 40 40 40 40 40	r by the front pan	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)	r by the front pan	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)	r by the front pan	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 40 40 1.00 to programming accuracy (*16) 0.05% of rated output voltage 2. Outprogramming accuracy (*15) 0.3% of rated output current 3.0 volt programming resolution 0.002% of rated output voltage 4. Outprogramming resolution 0.002% of rated output current 5. Volt readback accuracy 0.05% of rated output voltage 0.05% of rated ou	ramming via the r by the front pando	
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)	ramming via the r by the front pan 500 66	60

GENESYS[™] **GSP15kW SERIES SPECIFICATIONS**

OLITRUIT DATING		ccn	10 1500	20.750	20.510	40.375	FO 300	CO 355	00.10=	100 150	150 100	200 75	200 51	400.30	F00 30	(00 25 -
OUTPUT RATING		GSP	10-1500	20-750	30-510	40-375	50-300	60-255	80-195	100-150	150-102	200-75	300-51	400-39	500-30	600-25.5
1.Rated output voltage(*1) 2.Rated output current (*2)		V A	10 1500 (*3)	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
3.Rated output current (*2)		kW	1500 (*3)	15	15.3	15	15	15.3	15.6	150	15.3	15	15.3	15.6	15	15.3
						1				1		1		1		
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 w	rire + Ground (*4)		3-Phase, 20 3-Phase, 40 3-Phase, 40	00V mode	ls: 342~4	60Vac, 47	~63Hz (Co	vers 380	/400/415V		0Vac)					
	3-Phase, 200V models:		52.5A @ 20		13. 342-3	20 vac, 47	03112 (CO	VE13 300/-	100/113/1	10/100/10	ovac)					
2. Maximum Input current at 100% load	3-Phase, 400V models: 3-Phase, 480V models:		27.6A @ 38 27.6A @ 38	0Vac												
3.Power Factor (Typ)			0.94 @ 200		rated out	out power										
4.Efficiency (Typ) (*5) (*22)	<u> </u>	%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6)		A	Less than 1	150A												
6.AC line phase imbalance		%	< 5%													
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.01% of ra	ted outp	ut voltage											
2.Max. Load regulation (*8)			0.01% of ra	ted outp	ut voltage	+5mV										
3.Ripple and noise (p-p, 20MHz) ((*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C														-
6.Temperature stability	-		0.01% of ra									d & temp.				
7. Warm-up drift	. (*10)							1	1	wing powe		-	T -	T -	_	
8.Remote sense compensation/w	/ire (*10)	٧	2	2	5	5	5	5	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	Full In 1 (Mas)	mS c	30	30	30	30	50	50	50	50	50	50	50	100	100	100
10.Down-prog.response time:	Full load (*11) No load (*12)	mS ms	50 300	50 600	80 800	80 900	80 950	80 1000	100 1200	100 1900	100 2000	100 2500	100 3000	150 4000	200	200
	No load (*12)	mS													4000	3000
11.Transient response time		mS								r a load ch g 100V. 2m				it current.	output se	r-hoiut:
12Start up delay		Sec	Less than 7													
					30	10			00	100	150	200	200	400	500	(00
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)			0.05% of ra													
2.Max. Load regulation (*13)	D.M. CLI- 1MII- (*14)		0.08% of ra 2000	1200	T	300	250	180	100	70	45	45	15	15	12	10
3.Ripple r.m.s. @ 10% rated voltage 4.Ripple r.m.s. @ 100% rated voltage		mA mA	1200	700	600 300	150	130	90	60	35	23	45 23	7.5	15 7.5	12 8	10 6
4.hippie i.iii.s. @ 100% rated voltage	. D.W 3HZ~IIVIHZ. (IA 23 C)	IIIA	10V~100V							nutes warr			7.5	7.5	0	0
5.Temperature coefficient		PPM/°C								utes warn						
6.Temperature stability			0.01% of ra									1 & tempe	rature			
			10V~100V													
7. Warm-up drift			150V~600V										-			
ANALOG DDOCDAMMING AND A	AONITODING (ICOLATED	EDOM														
ANALOG PROGRAMMING AND N	VIONITORING (ISOLATED	FROM I		-	.10\/	1			arity: 1/6	1504 of	ad Vaut					
1.Vout voltage programming					TUV LISER											
	3)						Accurac					-				
2.lout voltage programming (*15	5)		0~100%, 0	~5V or 0~	10V, user	selectable	. Accurac	y and line	arity: +/-0	0.4% of rate	ed lout.	Vout				
2.lout voltage programming (*15 3.Vout resistor programming			0~100%, 0 0~100%, 0	~5V or 0~ ~5/10Koh	10V, user im full sca	selectable le, user se	e. Accurac lectable.	y and line Accuracy	arity: +/-0 and linear	0.4% of rate rity: +/-0.59	ed lout. % of rated					
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15			0~100%, 0 0~100%, 0 0~100%, 0	~5V or 0~ ~5/10Koh ~5/10Koh	·10V, user im full sca im full sca	selectable le, user se le, user se	e. Accurac lectable. I lectable. I	y and line Accuracy Accuracy	arity: +/-0 and linear and linear	0.4% of rate rity: +/-0.59	ed lout. % of rated					
2.lout voltage programming (*15 3.Vout resistor programming	;)		0~100%, 0 0~100%, 0	~5V or 0~ ~5/10Koh ~5/10Koh -10V, user	10V, user im full sca im full sca selectabl	selectable le, user se le, user se e. Accurac	e. Accurac lectable. lectable. sy: +/-0.5%	y and line Accuracy Accuracy 6 of rated	arity: +/-(and linear and linear Vout.	0.4% of rate rity: +/-0.59	ed lout. % of rated					
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*	(23)	 	0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~ ~5/10Koh ~5/10Koh -10V, user	10V, user im full sca im full sca selectabl	selectable le, user se le, user se e. Accurac	e. Accurac lectable. lectable. sy: +/-0.5%	y and line Accuracy Accuracy 6 of rated	arity: +/-(and linear and linear Vout.	0.4% of rate rity: +/-0.59	ed lout. % of rated					
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor (*23) 6.Output current monitor (*15) (*	(23)	 	0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~	~5V or 0~ ~5/10Koh ~5/10Koh ·10V, user ·10V, user	·10V, user im full sca im full sca selectabl selectabl	selectable le, user se le, user se e. Accurac e. Accurac	e. Accurac lectable. A lectable. A lectable. A lectable. A lectable. A lectable. A lectable. A lectable. A	y and line Accuracy Accuracy 6 of rated 6. of rated	arity: +/-0 and linear and linear Vout. I lout.	0.4% of rate rity: +/-0.5° rity: +/-0.5°	ed lout. % of rated % of rated	llout.	201/ 84	imur- S' '		10 m A
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor (*23) 6.Output current monitor (*15) (* SIGNALS AND CONTROLS (ISOLE 1. Power supply OK #1 signal	(23)	 r)	0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~	~5V or 0~ ~5/10Koh ~5/10Koh 10V, user 10V, user	10V, user im full sca im full sca selectabl selectabl	selectable le, user se le, user se e. Accurac e. Accurac	e. Accurac lectable. I lectable. I sy: +/-0.59 sy: +/-0.59	y and line Accuracy Accuracy 6 of rated 6. of rated utput On:	arity: +/-0 and linear and linear Vout. I lout.	0.4% of rate rity: +/-0.5° rity: +/-0.5° ut Off: Off.	ed lout. % of rated % of rated Maximum	l lout.			« Current:	10mA.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor (*23) 6.Output current monitor (*15) (* SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal	23) ATED FROM THE OUTPUT	 	0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~	~5V or 0~ ~5/10Koh ~5/10Koh 10V, user 10V, user ply outpunitor. Ope	10V, user im full sca im full sca selectabl selectabl at monitor n collector	selectable le, user se le, user se e. Accurac e. Accurac c. Open col	e. Accurac lectable lectable cy: +/-0.59 cy: +/-0.59 llector. Ou e: On. CV	y and line Accuracy Accuracy 6 of rated 6. of rated utput On: mode: Of	arity: +/-Cand linear and linear Vout. I lout. On. Outpo	0.4% of rate rity: +/-0.5° rity: +/-0.5° ut Off: Off. um Voltage	ed lout. % of rated % of rated Maximum : 30V, Max	n Voltage:	k Current	: 10mA.		10mA.
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor (*23) 6.Output current monitor (*15) (* SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro	23) ATED FROM THE OUTPUT	 	0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power sup CV/CC Mor Enable/Dis	~5V or 0~ ~5/10Koh ~5/10Koh ·10V, user ·10V, user ply outpu nitor. Ope	10V, user im full sca im full sca selectabl selectabl it monitor n collecto og progra	selectable le, user se le, user se e. Accurac e. Accurac c. Open col or. CC mod	e. Accurac lectable. I lectable. I ty: +/-0.59 ty: +/-0.59 llector. Ou e: On. CV pontrol by o	y and line Accuracy Accuracy 6 of rated 6. of rated utput On: mode: Of electrical	arity: +/-(and linear and linear Vout. I lout. On. Outpo	0.4% of rate rity: +/-0.5° rity: +/-0.5° ut Off: Off. Im Voltage dry contact	ed lout. % of rated % of rated Maximum : 30V, Max t. Remote:	n Voltage: kimum Sir : 0~0.6V o	nk Current or short. Lo	: 10mA. ocal: 2~30	V or open.	
2.lout voltage programming (*15 3.Vout resistor programming 4.lout resistor programming (*15 5.Output voltage monitor (*23) 6.Output current monitor (*15) (* SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog contro 4. LOCAL/REMOTE Analog signal	23) ATED FROM THE OUTPUT		0~100%, 0 0~100%, 0 0~100%, 0 0~5V or 0~ 0~5V or 0~ Power sup CV/CC Mor Enable/Dis analog pro	~5V or 0~ ~5/10Koh ~5/10Koh 10V, user 10V, user ply outpu nitor. Ope sable anal grammin	and full sca selectabl selectabl selectabl at monitor n collecto og progra g control	selectable le, user se le, user se e. Accurac e. Accurac c. Open col or. CC mod amming co	e. Accurac lectable. I lectable. I lectable. I sy: +/-0.59 sy: +/-0.59 llector. Ou e: On. CV pontrol by o	y and line Accuracy Accuracy 6 of rated 6. of rated utput On: mode: Of electrical n collecto	arity: +/-(and linear and linear Vout. I lout. On. Outpu f. Maximu signal or c	0.4% of rate rity: +/-0.5° rity: +/-0.5° ut Off: Off. Im Voltage dry contact : On. Local:	Maximum: 30V, Maxi. Remote: Off. Maximum	n Voltage: kimum Sir : 0~0.6V o mum Volta	nk Current or short. Lo age: 30V, N	: 10mA. ocal: 2~30 Maximum	V or open.	
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GENESYS™ GSP10kW/15kW SERIES SPECIFICATIONS

1.Foldback protection 2.Over-voltage protection (OVP) 3.Over-voltage programming range		Output sl	nut-down	when por	wer supply	v changer		61/ B							
		osei pies	etable. Re	set by AC	input rec	ycle in aut	ostart mo	m CV or Po de, by Pov	ower Limit ver Switch	to CC mo	de or fron UT buttoı	n CC or Po n, by rear p	wer Limit panel or b	to CV mod y communi	e. ication.
3.Over -voltage programming range		Output sl	nut-down			recycle in									
	V	0.5~12	1~24	2~36	2~44.1	5~55.125	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661.5
4. Over-voltage programming accuracy		+/-1% of ı	ated outp	ut voltag	e										
5.Output under voltage limit (UVL)		Prevents	from adju	sting Vou	t below lir	mit. Does r	not apply i	n analog	programm	ing. Prese	t by front	panel or	communic	ation port	
5.Over temperature protection						by autost	art mode.								
7. Output under voltage limit (UVL)		Prevents	adjustme	nt of Vout	below lim	nit.									
3. Output under voltage protection (UVP)		Prevents mode, by	adjustme Power Sv	nt of Vout vitch, by C	below lim OUTPUT bu	nit. P.S out utton, by r	put turns (ear panel (Off during or by com	under vo municatio	tage cond n.	lition. Res	set by AC i	nput recy	cle in autos	start
FRONT PANEL															
1.Control functions		Multiple	ontions w	ith 2 Enco	ders										
i.control functions		Vout/lou										-	-		
		OVP/UVL										-	-		
						oldback, 0	OCI ENA	II C							
						of LAN,IEE			or Ontion	al commu	nication i	nterface			
		Output O				01 17 (14,111	L,113232,11	3-103,030	огорион	ui commu	meationi	interruce.			
						of Baud Ra	ata Addra	cc ID and	communic	ation land	211200				
						oltage/res						na	_		
						of Voltage				JIV, TOIK PIV	Jyranınını	ig			
2.Display						l output vo			J 3 V/ 10 V.						
потэргау						utput curi							-		
3. Front Panel Buttons Indications						OMMUNIC			NI CONEIG	LIDATION	CVCTEM	SECHIENC	ED		
S.FIORE Faller Buttons indications															
4. Front Panel Display Indications		(commun	Lurrent, Polication), F	ower, CV, RS/USB/L <i>F</i>	N/IEEE co	ternal Volt mmunica	age, Exter tion, Trigg	er, Load/S	it, Address store Cell.	s, LFP, Auto	ostart, Sai	retstart, Fo	oldback V/	I, Remote	
ENVIRONMENTAL CONDITIONS															
1.Operating temperature		0~50°C, 1	00% load												
2.Storage temperature		-30~85°C		•								-	-		
3.Operating humidity	%	20~90%		adonestio	m)										
, , ,															
4.Storage humidity	%	10~95% F													
5.Altitude (*17)		Operating	g: 10000ft	(3000m),	output cu	irrent dera	ting 2%/10	00m or Ta	derating 1	°C/100m a	bove 200	00m. Non o	perating:	40000ft (1	2000m).
MECHANICAL															
1.Cooling		Forced ai	r cooling l	by interna	l fans. Air	flow direc	tion: from	Front par	nel to pow	er supply i	rear				
2.Weight GSP 10kW	kg	Less than	15.5kg.												
3.Dimensions (WxHxD) GSP 10kW	mm	W: 423, H W: 423, H	l: 88, D: 44 l: 88, D: 64	H1.5 (Witho	out busbar ng busbars	s and busb s and busb	ars cover), ars cover, a	and strain	relief) (Ref	er to Outlir	ne drawin	g).			
2.Weight GSP 15kW	kg	Less than	23.5kg.												
3.Dimensions (WxHxD) GSP 15kW	mm					sbars and sbars and			train relief	(Refer to	Outline o	drawing).			
4.Vibration		MIL-810G	, method	514.6, Pro	cedure I, t	test condit	ion Annex	C - 2.1.3.1							
5.Shock		Less than	20G, half	sine, 11m	Sec. Unit i	s unpacke	d.								
SAFETY/EMC															
1. Applicable standards: Safety		11161010	1 ((1)	2 No 1 610	10 1 IEC (51010-1, EN	II 61010 1								
,						, J5, J6, J7,			municatio	n ontions) are Non	Hazardou			
1.1. Interface classification														n Hazardo	us.
1.2 Withstand voltage		Input - G 60V≤Vou Output & Output & 100V <vo Output &</vo 	round: 28 ut≤100V M J8 (sens J8 (sens out≤600V J8 (sens J8 (sens	335VDC Models: Ir se) - J1, J se) - Grou Models: se) - J1, J se) - Grou	1min. 1put – Ou 2, J3, J4, 1nd: 1500' Input – O 2, J3, J4, 1nd: 2500'	tput & J8 J5, J6, J7 VDC 1mir	(sense), c 7 & J9 (co n, Input - (3 (sense), 7 & J9 (co	J1, J2, J3 mmunica Ground: 2 J1, J2, J3	, J4, J5, J ition optio 2835VDC 3, J4, J5, v	6, J7 & J9 ns): 850V 1min. J6, J7 and	9 (commu 'DC 1min	unication n. nmunicatio	options):	DC 1min, 4242VDC s): 4242VE	
1.3 Insulation resistance		GSP10kW	//15kW: 60	Mohm at	25°C, 709	%RH. Outp	ut to Gro	und 500V	'DC						
2.Conducted emmision		IEC/EN61	204-3 Ind	ustrial env	/ironment	, Annex H	table H.1 .	FCC Part	15-A, VCCI	-A.					
		_													
3.Radiated emission		IEC/EN61	204-3 Ind	ustrial env	/ironment	t, Annex H	table H.3	and H4. F	CC Part 15						

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

- "NOTES:

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

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

 *3: GSP 10kW: Derate 10k1/°C above 40°C. GSP 15kW: Derate 15k1/°C above 40°C.

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

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

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

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

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

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

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

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

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

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

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

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

 *16: Measured at the sensing point.

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

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

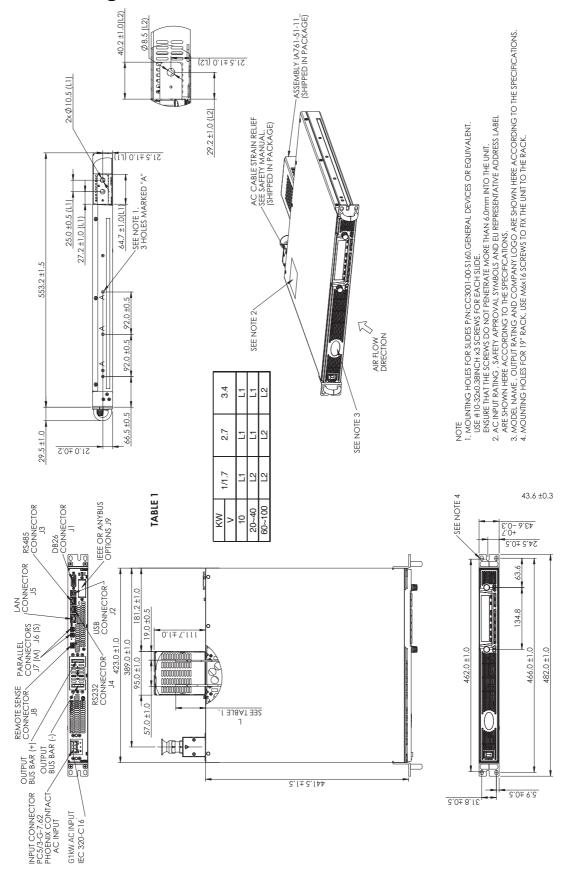
 *19:Max. ambient temperature for using IEEE is 40°C.

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

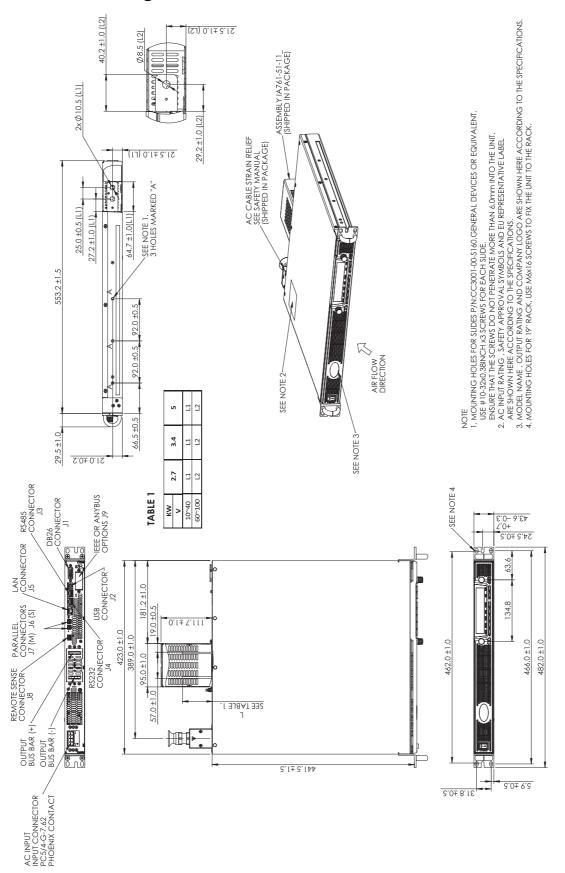
 *21: For 10V model only: For 3-Phase 200V efficiency is 88.5%

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

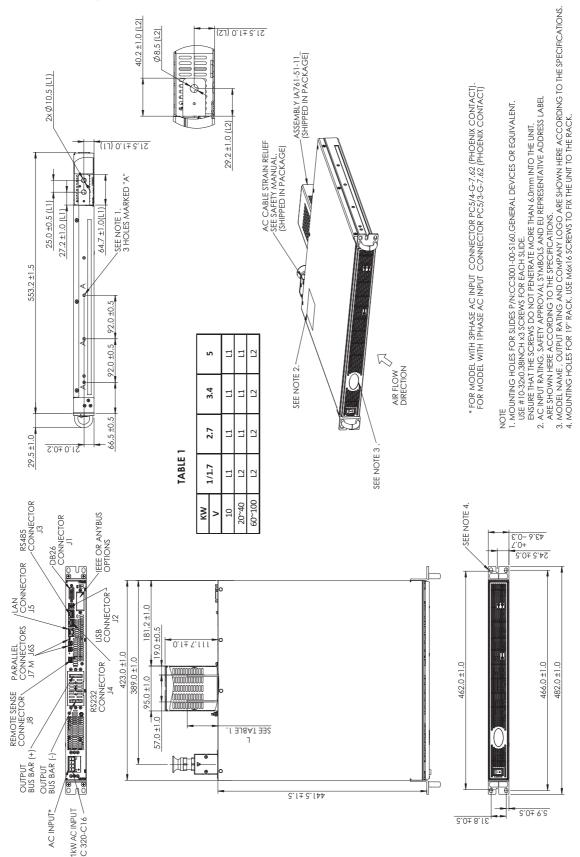
Outline Drawing GENESYS™ G1kW/1.7kW/2.7kW/3.4kW - 1-Phase



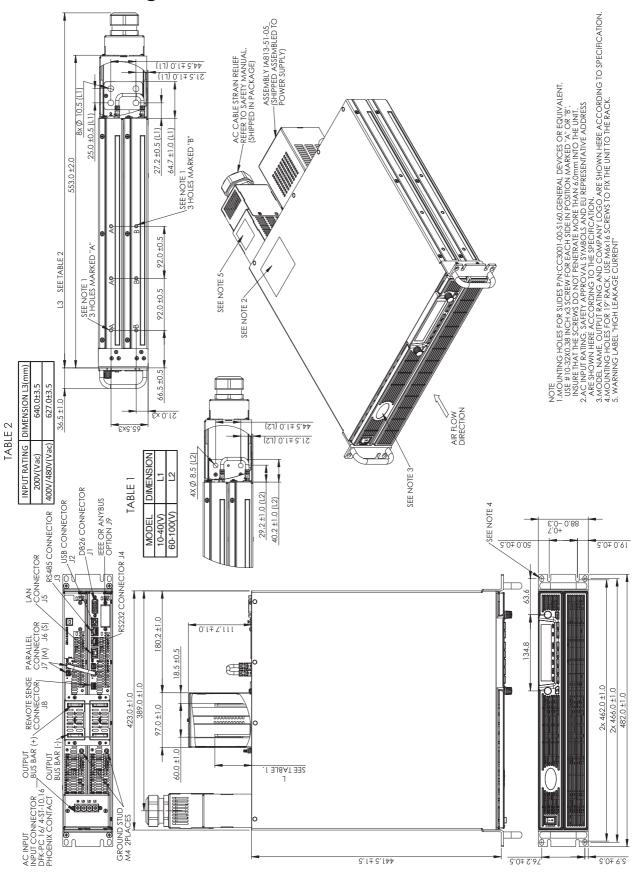
Outline Drawing GENESYS™ G2.7kW/G3.4kW/G5kW - 3-Phase



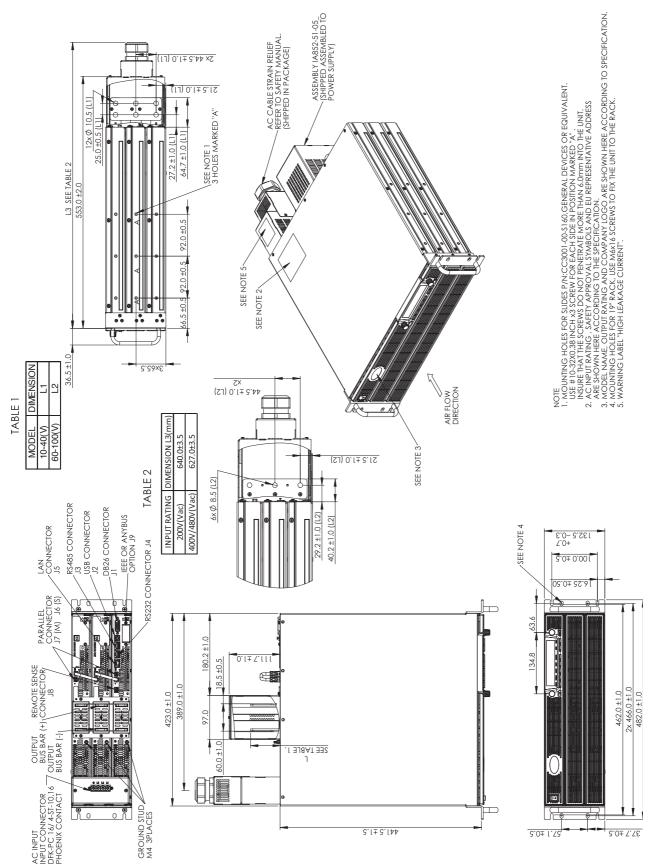
Outline Drawing GENESYS[™] GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version



Outline Drawing **GENESYS™** GSP10kW

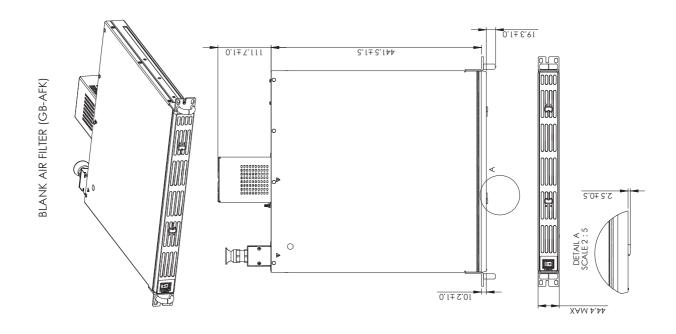


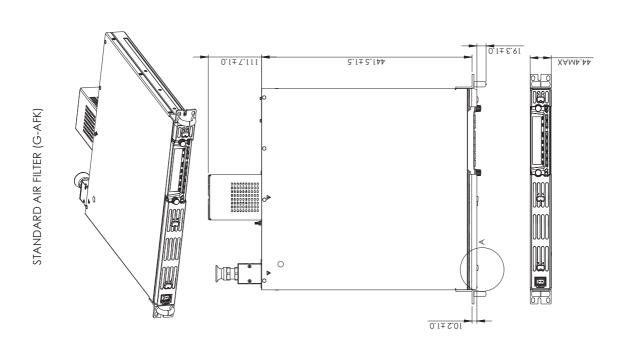
Outline Drawing **GENESYS™** GSP15kW



TDK·Lambda

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

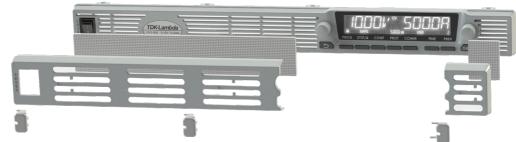




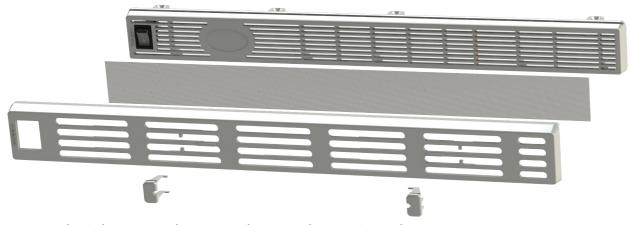
Front Panel Air Filter Assembly

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

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

Air Filter Assembly Components

Standard Unit (P/N: G-AFK)

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

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

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



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