



**GENESYS**<sup>™</sup> 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/lout)

 Constant Power Limit Operation • Internal Resistance Programming

 Built-In Remote Isolated Analog Interface
 Built-In LAN (LXI 1.5), USB, and RS-232/RS-485 Interfaces
 Optional EtherCAT, Modbus-TCP, IEEE (488.2) Interfaces
 Blank Front Panel Option Available



# **TDK·Lambda**

*Innovating Reliable Power* www.emea.lambda.tdk.com

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The **G***E***NESYS**<sup>™</sup> 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<sup>™</sup>/CVI, LabVIEW<sup>™</sup>, 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 30kW) with Auto-Configure
- Worldwide Safety Agency approvals
- CE Mark for Low Voltage, EMC and RoHS3 Directives
- Five year warranty

### **Applications**

**G***E***NESYS**<sup>™</sup> 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 six 5kW units. Each unit is 1U with zero space between them (zero stack).

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

### G1kW-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



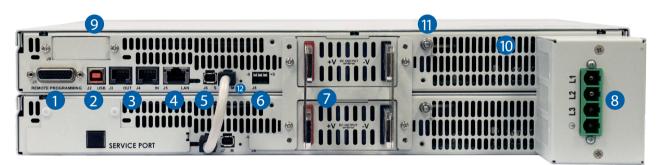
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

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- 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**



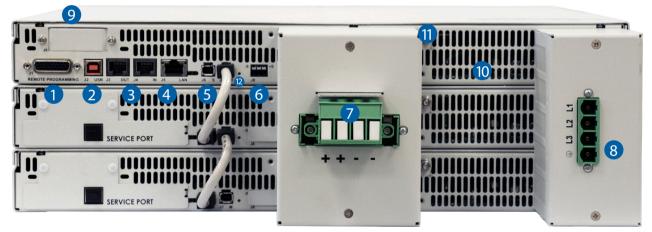
- 1. Isolated Analog Programming, Monitoring and other control connector (DB26 Female)
- 2. USB Interface connector (Type B).
- 3. RS-232/RS-485 IN/OUT Remote Digital Interface (RJ-45 type) for Multi-Drop connection
- 4. LAN (LXI 1.5) Interface connector (RJ-45 type with LAN status indicators).
- 5.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

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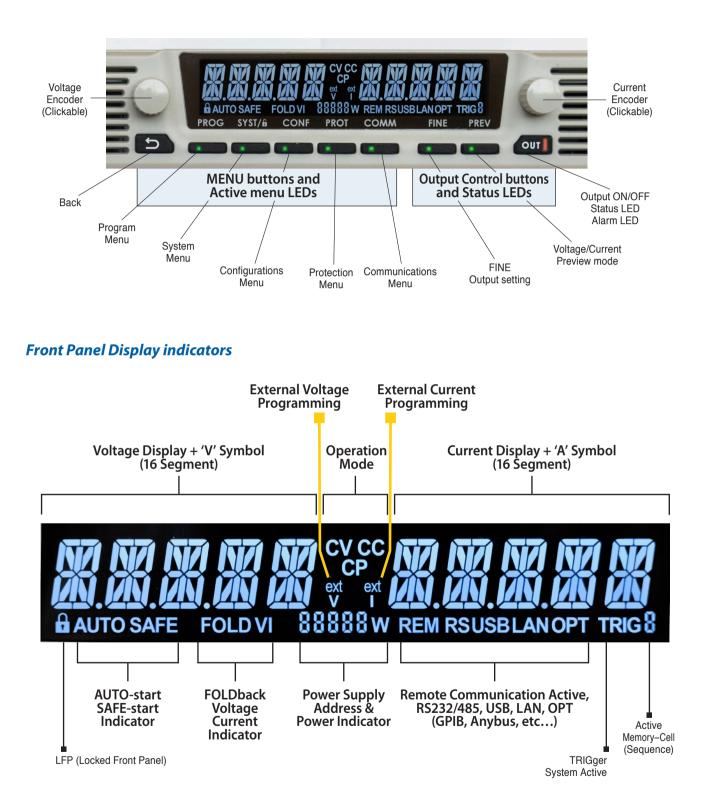
- 1. Input Power ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and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

#### GSP15kW Rear Panel Description



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



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#### GENESYS<sup>™</sup> G&GSP Series Blank Front Panel (ATE version)



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.

#### **G***E*NESYS<sup>™</sup> Parallel and Series Configurations

#### Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to six identical units to be connected

Total real current is programmed measured and reported by the Master. Up to six supplies operate as one.

Separate Parallel Kit available for 30kW (6 unit) systems allowing easy system setup. Order P/N: G/P - 6U Standard Unit - zero stacked up to 6 units

OUT (LED)



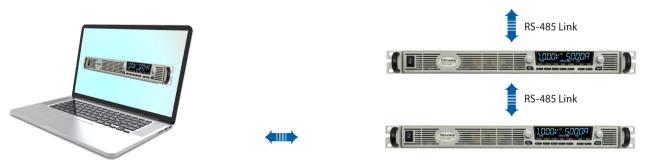
#### Series operation

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.

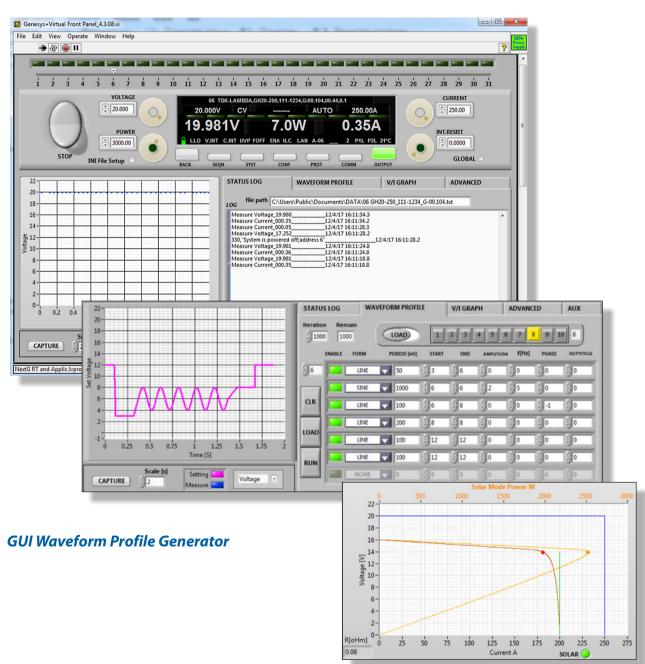


LAN, USB, RS-232, RS-485, IEEE, AnyBus

#### **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



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

G	10	- 170 -			-
Series Name	Output	Output	Interface Options	AC Cord Options only for 1kW	Accessories Options
Front Panel Type	Voltage	Current		Region: E - Europe	M - Printed *User Manual
Empty: standard	(0~10V)	(0~170A)		U - North America	* User Manual & GUI are available on the website
B: Blank Front Panel	(ATE version)			J - Japan	P - Bus Parralleling Cable
			V	C - China	
AC Inputs (All M	lodels)			I - Middle East	
1Ø, 85 ~ 265Vac					
Interface Optio	· · · · · · · · · · · · · · · · · · ·		<b>P/N</b>		
LAN (LXI 1.5 complia	ant with Multi-Drop	capability)- built-in	-		
USB 2.0 compliant v	with Multi-Drop ca	apability - built-in	-		
RS-232/RS-485 - b	uilt-in		-		
Isolated Analog Pro	gram/Monitor Inte	erface	-		
(5V/10V Pgm/Mon w					
Modbus-TCP	compliant with wu	lti-Drop capability installed)			
EtherCAT			MDBS		
Models 1kW			ECAT		
wodels IKW					

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-100	0~10V	0~100	1000	G80-12.5	0~80V	0~12.5	1000
G20-50	0~20V	0~50	1000	G100-10	0~100V	0~10	1000
G30-34	0~30V	0~34	1020	G150-7	0~150V	0~7	1050
G40-25	0~40V	0~25	1000	G300-3.5	0~300V	0~3.5	1050
G60-17	0~60V	0~17	1020	G600-1.7	0~600V	0~1.7	1020

#### Models 1.7kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
G10-170	0~10V	0~170	1700	G80-21	0~80V	0~21	1680
G20-85	0~20V	0~85	1700	G100-17	0~100V	0~17	1700
G30-56	0~30V	0~56	1680	G150-11.2	0~150V	0~11.2	1680
G40-42	0~40V	0~42	1680	G300-5.6	0~300V	0~5.6	1680
G60-28	0~60V	0~28	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 **G***E***NESYS**<sup>™</sup> 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

TDK·Lambda

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

G		340	·			
Series Name	Output	Output	Interface Options	AC Input Options	Accessories Options	
Front Panel Type	Voltage	Current	:	1P208 (Single Phase 170~265VAC)	M - Printed *User Manual	
Empty: standard	(0~10V)	(0~340A)		3P208 (Three Phase 170~265VAC)	* User Manual & GUI are	
B: Blank Front Panel (ATE version)				3P400 (Three Phase 342~460VAC)	available on the website	
				3P480 (Three Phase 342~528VAC)	P - Bus Parralleling Cable	
( <u> </u>	nt with Multi-Dro with Multi-Drop uilt-in gram/Monitor vith 600V isola	op capability)- built-in o capability - built-in Interface tion) - built-in	P/N - - - - IEEE MDBS ECAT			

#### Models G2.7kW

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 **G***E***NESYS**<sup>™</sup> power supplies.

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

#### 3. Bus Paralleling cable

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

#### 4. User Manual

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

G	10 -	500 -			-
Series Name	Output	Output	InterfaceOptions	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~500A)		3P400 (Three Phase 342~460VAC)	* User Manual & GUI are
B: Blank Front Panel	(ATE version)			3P480 (Three Phase 342~528VAC)	available on the website
					P - Bus Parralleling Cable
			<b>▼</b>		
Interface Optio	ons (Factor	y installed)	P/N		
LAN (LXI 1.5 complia	nt with Multi-Dro	op capability)- built-in	-		
USB 2.0 compliant	with Multi-Drop	o capability - built-in	-		
RS-232/RS-485 - b	ouilt-in		-		
Isolated Analog Pro (5V/10V Pgm/Mon v			-		
IEEE (488.2 & SCPI con	pliant with Multi-E	Drop capability installed)	IEEE		
Modbus-TCP			MDBS		
EtherCAT			ECAT		

#### Models 5kW

Model	Voltage (VDC)	Current (A)	Power (W)	Model	Voltage (VDC)	Current (A)	Power (W)
G10-500	0~10V	0~500	5000	G100-50	0~100V	0~50	5000
G20-250	0~20V	0~250	5000	G150-34	0~150V	0~34	5100
G30-170	0~30V	0~170	5100	G200-25	0~200V	0~25	5000
G40-125	0~40V	0~125	5000	G300-17	0~300V	0~17	5100
G50-100	0~100V	0~100	5000	G400-13	0~400V	0~13	5200
G60-85	0~60V	0~85	5100	G500-10	0~500V	0~10	5000
G80-65	0~80V	0~65	5200	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***E***NESYS**<sup>™</sup> power supplies.

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

#### 3. Bus Paralleling cable

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

### 4. User Manual

Printed User Manual	G/M
5 Parallal Kit: 20kW/20kW	

#### 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*

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Series Name	Output	Output	<b>Interface Options</b>	AC Input Options	Accessories Options
Front Panel Type	Voltage	Current		3P208 (Three Phase 170~265VAC)	M - Printed *User Manual
Empty: standard	(0~10V)	(0~1500A)		3P400 (Three Phase 342~460VAC)	* User Manual & GUI are
B: Blank Front Panel	(ATE version)			3P480 (Three Phase 342~528VAC)	available on the website
Interface Optio LAN (LX/ 1.5 complia USB 2.0 compliant v RS-232/RS-485 - bu Isolated Analog Prog (5V/10V Pgm/Mon w IEEE (488.2 & SCPI com Modbus-TCP EtherCAT	nt with Multi-Dro vith Multi-Drop o uilt-in gram/Monitor In ith 600V isolatic	p capability)- built-in capability - built-in terface n) - built-in	P/N - - - - - IEEE MDBS ECAT		

#### Models GSP 10kW

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

#### Models GSP 15kW

Model	Voltage (VDC)	Current (A)	Power (kW)	Model	Voltage (VDC)	Current (A)	Power (kW)
GSP10-1500	0~10V	0~1500	15	GSP100-150	0~100V	0~150	15
GSP20-750	0~20V	0~750	15	GSP150-102	0~150V	0~102	15.3
GSP30-510	0~30V	0~510	15.3	GSP200-75	0~200V	0~75	15
GSP40-375	0~40V	0~375	15	GSP300-51	0~300V	0~51	15.3
GSP50-300	0~50V	0~300	15	GSP400-39	0~400V	0~39	15.6
GSP60-255	0~60V	0~255	15.3	GSP500-30	0~500V	0~30	15
GSP80-195	0~80V	0~195	15.6	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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Models Series		G (Std Front Panel Display)GSP (Scalable Power)GB (Blank Front Panel Display)GBSP (Scalable Power)												
Rated Power	1kW	1.7kW	5kW	10kW	15kW									
Voltage Range		1kW 1.7kW 2.7kW 3.4kW 5kW 10kW 15kW Current Range (A)												
0-10V	0~100A	0~170A	0~265A	0~340A	0~500A	0~1000A	0~1500A							
0-20V	0~50A	0~85A	0~135A	0~170A	0~250A	0~500A	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	-	-	-	0~200A	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							

### GENESYS<sup>™</sup> Family Output Voltage and Current

#### AC Input Range

AC Input hung							
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 1020 GH600-1.7 0~600V 0~1.7

### Models 1.5kW

Model	Voltage (V)	Current (A)	Power (W)	Model	Voltage (V)	Current (A)	Power (W)
GH10-150	0~10V	0~150	1500	GH80-19	0~80V	0~19	1520
GH20-75	0~20V	0~75	1500	GH100-15	0~100V	0~15	1500
GH30-50	0~30V	0~50	1500	GH150-10	0~150V	0~10	1500
GH40-38	0~40V	0~38	1520	GH300-5	0~300V	0~5	1500
GH60-25	0~60V	0~25	1500	GH600-2.6	0~600V	0~2.6	1560

### GENESYS<sup>™</sup> 1kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-100	20-50	30-34	40-25	60-17	80-12.5	100-10	150-7	300-3.5	600-1.7
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	100	50	34	25	17	12.5	10	7	3.5	1.7
3.Rated output power		W	1000	1000	1020	1000	1020	1000	1000	1050	1050	1020
INPUT CHARACTERISTICS		v	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			85~265Vac, c	ontinuous, 47	~63Hz,Single	Phase			•			·
2. Maximum Input current at 1009	% load (100/200)	Α	12.5/6.5									
3.Power Factor (Typ)			0.99 @ 100Va	c 0.98 @ 200	Vac, rated out	put power.						
4.Efficiency at 100 Vac/200Vac, rat	ted output (*17)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)		A	Less than 50/	1								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			0.01% of rate	d output volta	ae				1	1		
2.Max. Load regulation (*7)				d output volta	•							
3.Ripple and noise (p-p, 20MHz) (*	*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	0)	mV	6	6	6	7	7	10	12	9	20	100
5.Temperature coefficient			-		ut voltage, fol				12	,	20	100
					-	-			a load 8 toma			
6.Temperature stability					nrs interval fol	-				p.		
7. Warm-up drift	(114.0)				tput voltage+			÷.		-	-	-
8.Remote sense compensation/wi	ire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	35	35	35	35	35	35	40	50	100	100
10 Down prog rosponso timo:	Full load (*12)	mS	35	30	60	60	60	60	80	120	220	220
10.Down-prog.response time:	No load (*12)	mS	500	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time		mS								rated output ci	urrent. Output	t set-point:
					than 1mS, for							
12.Start up delay		Sec	Less than 6 Se	2C								
13.Hold-up time		mS				20	ms typical, rat	ed output pov	wer			
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
						40	00	00	100	150	500	000
1.Max. Line regulation (*6)				d output curre								
2.Max. Load regulation (*9)				d output curre								
3.Ripple r.m.s. @ rated voltage. B.V	V 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient		PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fol	lowing 30 mir	nutes warm-u	p.			
Sitemperature coefficient			150V~600V	70PPM/°C fro	m rated outpu	it current, follo	owing 30 min	utes warm-up				
6.Temperature stability			0.01% of rate	d lout over 8h	rs. interval fol	owing 30 min	utes warm-up	. Constant line	e, load & temp	perature.		
			10V~100V mo	del: Less thar	+/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power a	on.		
7. Warm-up drift			150V~600V: L	ess than +/-0.	15% of rated o	utput current	over 30 minu	tes following	power on.			
ANALOG PROGRAMMING AND M	IONITORING (ISOLATED											
1.Vout voltage programming					er selectable.							
2.lout voltage programming (*14)	)		0~100%, 0~5	V or 0~10V, us	er selectable.	Accuracy and	linearity: +/-0	.4% of rated lo	out.			
3.Vout resistor programming			0~100%, 0~5	/10Kohm full :	cale, user sele	ctable. Accur	acy and linear	ity: +/-0.5% of	rated Vout.			
4.lout resistor programming (*14)			0~100%, 0~5	/10Kohm full	cale, user sele	ctable. Accur	acy and linear	ity: +/-0.5% of	rated lout.			
			0~5V or 0~10	V, user selecta		-		-				
5.Output voltage monitor					ible. Acculacy	: +/-0.5% of ra	ted Vout.					
5.Output voltage monitor 6.Output current monitor (*14)			0~5V or 0~10		,							
6.Output current monitor (*14)			0~5V or 0~10		able. Accuracy							
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPU			V, user selecta	able. Accuracy	: +/-0.5% of ra	ted lout.					
6.Output current monitor (*14)	TED FROM THE OUTPU		Power supply	V, user selecta output moni	able. Accuracy	: +/-0.5% of ra	ted lout. On: On. Outpu			e: 30V, Maximu		nt: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPUT		Power supply	V, user selecta output moni	able. Accuracy	: +/-0.5% of ra	ted lout. On: On. Outpu			je: 30V, Maximu Sink Current: 10		nt: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA 1. Power supply OK #1 signal		 [) 	Power supply CV/CC Monite	V, user selecta output moni or. Open colle	able. Accuracy tor. Open colle ctor. CC mode	: +/-0.5% of ra ector. Output : On. CV mode	ted lout. On: On. Outpu : Off. Maximu	m Voltage: 30'	V, Maximum S		)mA.	
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal		 [) 	Power supply CV/CC Monito Enable/Disab	V, user selecta output moni pr. Open colle le analog pro	ble. Accuracy tor. Open colli ctor. CC mode gramming col	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electri	ted lout. On: On. Outpu : Off. Maximu cal signal or d	m Voltage: 30' ry contact. Re	V, Maximum S mote: 0~0.6V	Sink Current: 10	)mA. l: 2~30V or op	en.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control		 [)  	Power supply CV/CC Monito Enable/Disab analog progra	V, user selecta r output moni or. Open colle le analog pro amming contr	ble. Accuracy tor. Open colli ctor. CC mode gramming col ol monitor sig	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electri nal. Open colle	ted lout. On: On. Outpu : Off. Maximu cal signal or d	m Voltage: 30' ry contact. Re On. Local: Off.	V, Maximum S mote: 0~0.6V Maximum Vo	Sink Current: 10 ′ or short. Loca	0mA. l: 2~30V or op kimum Sink Cu	en.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal		 [)  	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab	V, user selecta routput moni or. Open colle ile analog pro amming contr ile PS output b	ble. Accuracy tor. Open collector. CC mode gramming col ol monitor sig by electrical si	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electri nal. Open colle gnal or dry col	ted lout. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30'	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use	Sink Current: 10 / or short. Loca Itage: 30V, Max er selectable Ic	0mA. l: 2~30V or op kimum Sink Cu	en.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		   	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab	V, user selecta routput moni or. Open colle le analog pro amming contr le PS output h le PS output h	tor. Open colli ctor. Open colli ctor. CC mode gramming col ol monitor sig oy electrical si oy electrical si	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electri nal. Open colle gnal or dry coi gnal or dry coi	ted lout. On: On. Outpu : Off. Maximu cal signal or d :ctor. Remote: ntact. 0~0.6V ntact. Remote	m Voltage: 30 ry contact. Re On. Local: Off. or short, 2~30 : 0~0.6V or sho	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3	Sink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open.	)mA. l: 2~30V or op kimum Sink Cu ogic.	en.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		 )       -	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra	V, user selecta r output moni or. Open colle le analog pro amming contr le PS output l le PS output l	bble. Accuracy tor. Open colli- ctor. CC mode gramming cor ol monitor sig by electrical si by electrical si able signals. N	: +/-0.5% of ra ector. Output t : On. CV mode ttrol by electri nal. Open colle gnal or dry con gnal or dry con faximum volta	ted lout. On: On. Outpu : Off. Maximu cal signal or d ctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxi	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S	ink Current: 10 ' or short. Loca Itage: 30V, Max er selectable Ic 30V or open. hunted by 27V	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control		     	Power supply CV/CC Monito Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum lo	V, user selecta r output moni or. Open colle le analog pro amming contr le PS output k le PS output k nin programm ow level inpu	bble. Accuracy tor. Open colli- ctor. CC mode gramming cor ol monitor sig by electrical si by electrical si able signals. N	: +/-0.5% of ra ector. Output t : On. CV mode ntrol by electri nal. Open colle gnal or dry col gnal or dry col Maximum volta	ted lout. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxin n high level	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltago	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, Max	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals		 )       -	Power supply CV/CC Monite Enable/Disab analog progra Enable/Disab Enable/Disab Two open dra Maximum le edge trigge	V, user selecta routput moni or. Open colle le analog pro amming contrr le PS output l le PS output l in programm ww level inpu r: tw=10us m	bble. Accuracy tor. Open colli ctor. CC mode gramming cor ol monitor sig oy electrical si oy electrical si able signals. N it voltage = 0	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electrin nal. Open colle gnal or dry cou gnal or dry cou daximum volta .8V,Minimur f=1us Maxim	ted lout. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxin n high level	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltago	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, Max	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal		        	Power supply CV/CC Monite Enable/Disab Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum la edge trigge By electrical	V, user selecta routput moni or. Open colle ile analog pro amming contrr ile PS output l ile PS output l in programm pw level inppu r: tw=10us m /oltage: 0~0.6	tor. Open colli ctor. CC mode gramming cor ol monitor sig by electrical si able signals. A able signals. A tr voltage = C innimum. Tr,T	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electrin nal. Open colle gnal or dry cou gnal or dry cou daximum volta .8V,Minimur f=1us Maxim	ted lout. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxin n high level	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltago	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, Max	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		        	Power supply CV/CC Monite Enable/Disab Enable/Disab Enable/Disab Enable/Disab Two open dra Maximum la edge trigge By electrical	V, user selecta routput moni or. Open colle le analog pro amming contrr le PS output l le PS output l in programm ww level inpu r: tw=10us m	tor. Open colli ctor. CC mode gramming cor ol monitor sig by electrical si able signals. A able signals. A tr voltage = C innimum. Tr,T	: +/-0.5% of ra ector. Output ( : On. CV mode ntrol by electrin nal. Open colle gnal or dry cou gnal or dry cou daximum volta .8V,Minimur f=1us Maxim	ted lout. On: On. Outpu : Off. Maximu cal signal or d cctor. Remote: ntact. 0~0.6V ntact. Remote age 25V, Maxin n high level	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho mum sink curr input voltago	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, Max	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal		        	Power supply CV/CC Moniti Enable/Disab analog progra Enable/Disab Two open dra Two open dra Maximum Id edge trigge By electrical N 4~5V=OK, 0V	V, user selecta routput moni pr. Open colle le analog pro amming contr le PS output t le PS output t le PS output t le PS output t in programm w level inpur r: tw=100s m /oltage: 0~0.6 (500ohm imp	tor. Open colli- ctor. Oc mode gramming co ol monitor sig oy electrical si able signals. N it voltage = ( inimum. Tr,T V/2~30V or dr vedance)=Fail	: +/-0.5% of ra ector. Output ( : On. CV mode trol by electri- nal. Open colle gnal or dry con gnal or dry con daximum volta .8V, Minimum f=1us Maxim y contact.	ted lout. On: On. Output : Off. Maximu cal signal or d ctor. Remote: ttact. 0~0.6V atact. Remote age 25V, Maxin h tigh level um, Min del	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho num sink curr input voltago ay between	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, May 2 pulses 1ms	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal		        	Power supply CV/CC Moniti Enable/Disab analog progra Enable/Disab Two open dra Two open dra Maximum Id edge trigge By electrical N 4~5V=OK, 0V	V, user selecta routput moni pr. Open colle le analog pro amming contr le PS output t le PS output t le PS output t le PS output t in programm w level inpur r: tw=100s m /oltage: 0~0.6 (500ohm imp	tor. Open colli ctor. CC mode gramming cor ol monitor sig by electrical si able signals. A able signals. A tr voltage = C innimum. Tr,T	: +/-0.5% of ra ector. Output ( : On. CV mode trol by electri- nal. Open colle gnal or dry con gnal or dry con daximum volta .8V, Minimum f=1us Maxim y contact.	ted lout. On: On. Output : Off. Maximu cal signal or d ctor. Remote: ttact. 0~0.6V atact. Remote age 25V, Maxin h tigh level um, Min del	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho num sink curr input voltago ay between	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, May 2 pulses 1ms	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog signal 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		          	Power supply CV/CC Moniti Enable/Disab analog progr- Enable/Disab Enable/Disab Two open dra Maximum Ib edge trigge By electrical V 4~5V=OK, 0V Possible. Up 1	V, user selecta routput moni or. Open colle le analog pro amming contr le PS output H le PS output H le PS output H lin programm we level inpur; r: tw=10us m /oltage: 0~0.0 (500ohm imp	tor. Open colli- ctor. Oc mode gramming co ol monitor sig oy electrical si able signals. N it voltage = ( inimum. Tr,T V/2~30V or dr vedance)=Fail	: +/-0.5% of ra ector. Output ( : On. CV mode throl by electri nal. Open collec gnal or dry cou gnal or dry cou daximum volta .8%/Minimum f=1us Maxim y contact.	ted lout. On: On. Outpu : Off. Maximu cal signal or d ctor. Remote: ttact. 0~0.6V ttact. Remote age 25V, Maxia n high level uum, Min del	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho num sink curr input voltago ay between	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3 ent 100mA (S e = 2.5V, May 2 pulses 1ms	ink Current: 10 7 or short. Loca Itage: 30V, Max er selectable lo 80V or open. hunted by 27V ximum high lo	0mA. l: 2~30V or op kimum Sink Cu ogic. ' zener)	en. rrent: 10mA.
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6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLA' 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal 6. INTERLOCK (ILC) control 7. Programmed signals 8. TRIGGER IN / TRIGGER OUT signal 10. DAISY_IN/SO control signal 10. DAISY_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 (*16) 1. Vout programming accuracy (*15 2. lout programming resolution 4. Jout programming resolution 5. Vout readback accuracy	als CK (USB, LAN, Interfaces) 5) 4) ed output voltage)		Power supply CV/CC Moniti Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Enable/Disat Maximum le dge trigge By electrical 1 4~5V=OK, 0V Possible. Up 1 Possible. Two Power suppli Limits the ou Emulates seri Programmab Dossible. Two Pous of acta 0.05% of rate 0.02% of rate 0.05% of rate	V, user selecta routput moni rr. Open colle le analog pro amming contr le PS output l le PS output l in programm w level inpu; r: tw=10us m /oltage: 0~0.6 (500ohm imp o 4 identical unit es can be con tyut power to ser seistance. le Output rise on ports or th to 100 steps of 20 d output voltt l output curre ed output volt ed output volt	tor. Open colli- tor. Open colli- tor. CC mode gramming coi ol monitor sig up electrical si able signals. N tt voltage = { inits in Master s. Refer to ins nected in Dais a proggramm Resistance rai and Output f. <b>g</b> <b>g</b> <b>n</b> t+0.2% of ra tage rent age	: +/-0.5% of ra ector. Output ( : On. CV mode throl by electri hal. Open collect gnal or dry con gnal or dry con daximum volta .8%, Minimur f=1us Maxim y contact. /Slave mode1 /Slave mode1	ted lout. On: On. Outpu : Off. Maximu cal signal or d ctor. Remote: ttact. 0~0.6V ttact. 0~0.6V ttact. Remote age 25V, Maxin n high level uum, Min del uum, Min del chronize their gramming via Q. Programming via Ogramming r 60	m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' co~0.6V or sh mum sink curr mum sink curr nput voltage ay between - ction manual. turn-on and t the communi ing via the cor ange: 0.0001~	V, Maximum S mote: 0~0.6V Maximum Vo V or open. Us: ort. Local: 2~3 ent 100mA (S = 2.5V, Max 2 pulses 1ms = 2.5V, Max 2 pulses 1ms urn-off. cation ports c mmunication 999.99 V/mSe d via the comm	ink Current: 10 ' or short. Loca Itage: 30V, Max er selectable lc 30V or open. hunted by 27V ximum high l- s. br the front par ports or the front par	DmA. I: 2~30V or op, kimum Sink Cu gjic. ( <sup>7</sup> zener) evel input = : vel input = : nel. ont panel. Programming rts or by the fr 300	en. rrent: 10mA. 5V positive via the ont panel. 600

# TDK·Lambda \_\_\_\_\_

### GENESYS<sup>™</sup> 1.7kW SERIES SPECIFICATIONS

OUTPUT RATING	G	10-170	20-85	30-56	40-42	60-28	80-21	100-17	150-11.2	300-5.6	600-2.8
1.Rated output voltage(*1)	V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2) 3.Rated output power	A	170 1700	85 1700	56 1680	42 1680	28 1680	21 1680	17 1700	11.2 1680	5.6 1680	2.8
	-										1
	V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. (*3)			ontinuous, 47	~63Hz,Single	Phase						
2. Maximum Input current at 100% load (100/200) 3.Power Factor (Typ)	A	20/10	c 0.98 @ 200	Vac rated out	put powor						
4.Efficiency at 100 Vac/200Vac, rated output (*19)	%	86/88	87/89	87/89	87/89	87/89	87/89	88/90	88/90	88/90	88/90
5.Inrush current (*5)	A	Less than 50/		07/05	07/05	01/05	07/05	00/70	00/70	00/20	00/20
	V			20	40	(0	00	100	150	200	(00
CONSTANT VOLTAGE MODE	-	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output volta	•							
2.Max. Load regulation (*7)			d output volta								
3.Ripple and noise (p-p, 20MHz) (*8)	mV	50	50	50	60	60	75	75	75	120	500
4.Ripple r.m.s. 5Hz~1MHz (*8)	mV	6	6	6	7	7	10	12	8	20	100
5.Temperature coefficient	PPM/°C		m rated outp	-	-			1 10			
6.Temperature stability							o. Constant lin		).		
7. Warm-up drift							/ing power on		-	-	-
8.Remote sense compensation/wire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)	mS	20	20	20	20	20	20	25	50	100	100
10.Down-prog.response time:	mS	30	30	60	60	60	60	60	120	220	200
No load (*12)	mS	450	700	1000	1200	1500	1700	2600	2900	4600	4600
11.Transient response time	mS	Time for outp	out voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang 100V. 2mS, fo	e 10~90% of r	ated output cu	urrent. Outpu	it set-point:
12.Start up delay	Sec	Less than 6 Se			models up to	ana menuung	j 1004.21113,TC	- 11100613 000	ve 100V.		
13.Hold-up time	mS	Less uidii 0 56			16	ms typical rat	ed output pov	ver			
•	_	1									
CONSTANT CURRENT MODE	V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*6)			d output curre								
2.Max. Load regulation (*9)		0.02% of rate	d output curr	ent. +5mA							
3.Ripple r.m.s. @ rated voltage. B.W 5Hz~1MHz. (*13)	mA	≤420	≤160	≤100	≤60	≤50	≤30	≤20	≤10	≤8	≤5
5.Temperature coefficient	PPM/°C	10V~100V	100PPM/°C fr	om rated outp	out current, fo	lowing 30 mi	nutes warm-u	э.			
	, c						utes warm-up				
6.Temperature stability		0.01% of rate	d lout over 8h	rs. interval fol	lowing 30 min	utes warm-up	. Constant lin	e, load & temp	oerature.		
7. Warm-up drift		10V~100V mo	odel: Less thar	n +/-0.25% of r	ated output c	urrent over 30	minutes follo	wing power o	n.		
. wann-up unit		150V~600V: L	ess than +/-0	.15% of rated o	output current	over 30 minu	tes following	oower on.			
ANALOG PROGRAMMING AND MONITORING (ISOLATE	D FROM T	HE OUTPUT)									
1.Vout voltage programming		-	V or 0~10V us	er selectable	Accuracy and	linearity: +/-0	.15% of rated	/out			
2.lout voltage programming (*14)							.4% of rated lo				
3.Vout resistor programming					/iccuracy una	iniculty. 17 o	. 170 of futcult	/ut.			
					ectable Accur	acy and linear	ity +/-0 5% of	rated Vout			
							ity: +/-0.5% of				
4.lout resistor programming (*14)		0~100%, 0~5	/10Kohm full	scale, user sele	ectable. Accur	acy and linear	ity: +/-0.5% of ity: +/-0.5% of				
4.lout resistor programming (*14) 5.Output voltage monitor		0~100%, 0~5 0~5V or 0~10	/10Kohm full : V, user selecta	scale, user sele able. Accuracy	ectable. Accur :: +/-0.5% of ra	acy and linear ted Vout	,				
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14)		0~100%, 0~5 0~5V or 0~10	/10Kohm full	scale, user sele able. Accuracy	ectable. Accur :: +/-0.5% of ra	acy and linear ted Vout	,				
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP	  JT)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10	/10Kohm full s IV, user selecta IV, user selecta	scale, user sele able. Accuracy able. Accuracy	ectable. Accur :: +/-0.5% of ra :: +/-0.5 of rate	acy and linear ted Vout d lout.%.	ity: +/-0.5% of	rated lout.			
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal	UT)	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply	/10Kohm full s IV, user selecta IV, user selecta V output moni	scale, user sele able. Accuracy able. Accuracy tor. Open colle	ectable. Accur :: +/-0.5% of rate :: +/-0.5 of rate ector. Output	acy and linear ted Vout d lout.%. On: On. Outpu	ity: +/-0.5% of	rated lout.	e: 30V, Maximi		ent: 10mA.
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal	UT) 	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite	/10Kohm full : IV, user selecta IV, user selecta V, output moni or. Open colle	scale, user sele able. Accuracy able. Accuracy tor. Open colle ctor. CC mode	ectable. Accur :: +/-0.5% of rate :: +/-0.5 of rate ector. Output : On. CV mode	acy and linear ted Vout d lout.%. On: On. Outpu	ity: +/-0.5% of ut Off: Off. Max m Voltage: 30	rated lout. kimum Voltag	ink Current: 10	)mA.	
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control	UT)  	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 Power supply CV/CC Monite Enable/Disab	/10Kohm full : IV, user selecta IV, user selecta v output moni or. Open colle ole analog pro	scale, user sele able. Accuracy able. Accuracy tor. Open colli ctor. CC mode gramming col	ectable. Accur :: +/-0.5% of ra :: +/-0.5 of rate ector. Output : On. CV mode ntrol by electr	acy and linear ted Vout d lout.%. On: On. Output :: Off. Maximu ical signal or c	ity: +/-0.5% of it Off: Off. Max m Voltage: 30' Iry contact. Re	rated lout. kimum Voltag V, Maximum S mote: 0~0.6V	ink Current: 10 or short. Loca	)mA. l: 2~30V or op	oen.
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal	UT)  JT  	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progra	/10Kohm full : IV, user selecta IV, user selecta y output moni or. Open colle ole analog pro amming contr	scale, user sele able. Accuracy able. Accuracy tor. Open coll- ctor. CC mode gramming co ol monitor sig	ectable. Accur : +/-0.5% of rate : +/-0.5 of rate ector. Output : On. CV mode ntrol by electr nal. Open colle	ed vout d lout.%. On: On. Output : Off. Maximu ical signal or c ector. Remote:	ity: +/-0.5% of it Off: Off. Max m Voltage: 30' Iry contact. Re On. Local: Off.	rated lout. kimum Voltag /, Maximum S mote: 0~0.6V Maximum Vo	ink Current: 10 or short. Loca Itage: 30V, Max	0mA. l: 2~30V or op kimum Sink Cu	oen.
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) <b>SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP</b> 1. Power supply OK #1 signal 2. CV/CC signal 3. LOCAL/REMOTE Analog control 4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal	JT)  J    	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progra Enable/Disab	/10Kohm full : /V, user selecta /V, user selecta / / output moni or. Open colle ole analog pro amming contr ole PS output h	scale, user sele able. Accuracy able. Accuracy tor. Open colli ctor. CC mode gramming con ol monitor sig by electrical si	ectable. Accur :: +/-0.5% of rate :: +/-0.5 of rate ector. Output : On. CV mode ntrol by electr nal. Open colle gnal or dry col	cy and linear ted Vout d lout.%. On: On. Output: Off. Maximu ical signal or c ector. Remote: ntact. 0~0.6V	It Off: Off. Max m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30'	rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use	ink Current: 10 or short. Loca Itage: 30V, Max er selectable Ic	0mA. l: 2~30V or op kimum Sink Cu	oen.
4.lout resistor programming (*14) 5.Output voltage monitor 6.Output current monitor (*14) SIGNALS AND CONTROLS (ISOLATED FROM THE OUTP 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	JT)       	0~100%, 0~5 0~5V or 0~10 0~5V or 0~10 CV/CC Monite Enable/Disab analog progr. Enable/Disab Enable/Disab	/10Kohm full : /V, user selecta /V, user selecta / / output moni or. Open colle ole analog pro amming contr ole PS output I	scale, user sele able. Accuracy able. Accuracy tor. Open colli ctor. CC mode gramming con ol monitor sig by electrical si by electrical si	ectable. Accur :: +/-0.5% of rate :: +/-0.5 of rate ector. Output : On. CV mode ntrol by electr nal. Open colle gnal or dry col gnal or dry col	cy and linear ted Vout d lout.%. On: On. Output: Off. Maximu ical signal or c ector. Remote: ntact. 0~0.6V ntact. Remote	It Off: Off. Max m Voltage: 30' ry contact. Re On. Local: Off. or short, 2~30' : 0~0.6V or sho	rated lout. kimum Voltag V, Maximum S mote: 0~0.6V Maximum Vo V or open. Use ort. Local: 2~3	ink Current: 10 or short. Loca Itage: 30V, Max er selectable Ic 0V or open.	0mA. l: 2~30V or op kimum Sink Cu ogic.	oen.
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#### GENESYS<sup>™</sup> 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 c AC input recycl	hanges mode le in autostart	from CV or Po mode, by Pov	ower Limit to wer Switch, by	CC mode or fro OUTPUT butt	om CC or Pow on, by rear pa	er Limit to CV nel or by com	mode. munication.	
2.Over-voltage protection (OVP)			Output shut-		y AC input red								
3.Over -voltage programming range		V	0.5~12										
<ol> <li>Over-voltage programming accur</li> </ol>	асу			d output volta									
5.Output under voltage limit (UVL)					out below limit			programming	g. Preset by fro	nt panel or co	mmunicatior	port.	
6.Over temperature protection					ito recovery by		ode.						
7. Output under voltage limit (UVL)			Prevents adjustment of Vout below limit.										
8. Output under voltage protection	(UVP)		Prevents adju mode, by Pov	ustment of Vo wer Switch, by	ut below limit OUTPUT butt	P.S output tu on, by rear pa	rns Off during nel or by com	under voltag munication.	je condition. R	leset by AC inp	out recycle in	autostart	
FRONT PANEL													
1.Control functions				ons with 2 En									
				wer Limit ma									
				P manual adju									
					P, UVL,UVP, Fol								
					- Selection of	LAN, IEEE, RS2	32,RS485,USB	or Optional c	ommunicatio	n interface.			
				OFF. Front Pan		0 10							
					- Selection of								
					Selection Vol				10K programn	ning			
2 Disalas					- Selection of 05% of rated o			<u>3</u> 5 V/10 V.					
2.Display					% of rated out								
3.Front Panel Buttons Indications					IEW, FINE, COI						2		
5.FIOIICFallel Buttons indications													
4. Front Panel Display Indications					V, CC, CP, Exter LAN/IEEE com				-P, Autostart, S	afetstart, Fold	dback V/I, Ren	note	
ENVIRONMENTAL CONDITIONS													
1.Operating temperature			0~50°C, 1009	6 load.									
2.Storage temperature			-30~85°C										
3.Operating humidity		%	20~90% RH (	no condensat	ion).								
4.Storage humidity		%	10~95% RH (	no condensat	ion).								
5.Altitude					n), output curre	ent derating 20	%/100m or Ta	derating 1°C/	100m above 2	000m. Non op	erating: 4000	0ft (12000m).	
MECHANICAL			1-1		.,,	j_							
1.Cooling			Forced air co	oling by inter	nal fans. Air flo	w direction: fr	rom Front nar	hel to nowers	upply rear				
2.Weight		kg	Less than 5kc			w uncetion. n	ioni i i i i i i i i i i i i i i i i i i	ier to power s	upply icui				
3.Dimensions (WxHxD)		mm	W: 423, H: 4	3.6, D: 441.5	(Without bu (Including b	isbars and bu	usbars cover	), er) (Refer to (	Outline draw	ina)			
4.Vibration					rocedure I, tes								
5.Shock					mSec. Unit is u		IIICA C - 2.1.3.						
			Less than 200	a, fidii sine, fi	msec. onicis c	праскец.							
SAFETY/EMC	foty C1kW/C1 7kW		111 61010 1 0	(A)) ) No (1(	10 1 JEC61010	1 EN61010 1							
1.Applicable standards: Sa	afety G1kW/G1.7kW				010-1, IEC61010								
1.1. Interface classification G	1kW/1.7kW		Vout ≤40V M 60≤ Vout≤ 6	odels: Output 00V Models: (	, J1,J2,J3,J4,J5, Output, J8 (ser	J6,J7,J8 (sense ise) are hazaro	e) and ,J9 (con lous, J1,J2,J3,.	nmunication ( J4,J5,J6,J7 and	options) are SE d J9 (communi	LV. cation option	s) are SELV		
			Vout ≤40V M	Adels: Input	- Output (SE	LV): 4242VD0	C 1min, Input	t - Ground: 28	B35VDC 1mir	ı			
1.2 Withstand voltage G	1kW/1.7kW		Vout ≤40V Models: Input - Output (SELV): 4242VDC 1min, Input - Ground: 2835VDC 1min. 60V≤Vout≤100V Models: Input - Output: 4242VDC 1min, Input - SELV: 4242VDC 1min, Output - SELV: 850VDC 1min, Output - Ground: 1500VDC 1min, Input - Ground: 2835VDC 1min.									in,	
-			100 <vout≤6 Output - Gro</vout≤6 	00V Models: ound: 2500VE	Input - Outpu DC 1min, Inpu	ut: 4242VDC it - Ground: 2	1min, Input - 835VDC 1mi	SELV: 4242\ in.	VDC 1min, Ou	utput - SELV:	1275VDC 1r	nin,	
1.3 Insulation resistance					Output to Gro								
2.Conducted emmision					nvironment, A		H.1 , FCC Part	15-A, VCCI-A .					
3.Radiated emission					nvironment, A								
	MC (*4)						n.5 anu 114, F	cerare is A,					
4. EMC compliance El	MC (*4)		Inccording to	IEC/EIN01204	-3 Industrial er	wironment							

 Yet Compliance
 Line (14)
 Line (14)

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

 NOTES:
 \*1: Minimum current 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, EC, 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: 68 > 132Vac or 170 - 265Vac. Constant load.

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

 \*8: For 100-300W models: Measured with EITA RC-9131C (1:1) probe. For 400~600V model: Measured with 100:1 probe.

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

 \*11: From 10% to 90% of Rated Output Voltage.

 \*11: From 10% to 90% of Rated Output Voltage.

 \*13: For 104W model, the ripple is measured at 20~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output voltage and rated output current. For other models, the ripple is measured at 10~100% of rated output

# TDK·Lambda ——

### GENESYS<sup>™</sup> 2.7kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-265	20-135	30-90	40-68	60-45	80-34	100-27	150-18	300-9	600-4.5
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	265	135	90	68	45	34	27	18	9	4.5
3.Rated output power		W	2650	2700	2700	2720	2700	2720	2700	2700	2700	2700
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
						63Hz (Covers						
1.Input voltage/freq. 3 phase, 3 wire +	⊦ Ground (*4)					-63Hz (Covers						
		1						440/460/480Va	ac)			
3-P	hase, 200V models:		10A @ 200Va		~265 Vac, 4/~	63Hz (Covers 2	200/208/230/	240vac)				
	hase, 400V models:		5.5A @ 380Va									
	hase, 480V models:		5.5A @ 380Va									
	hase, 200V models:		16.5A @ 200\									
2 Douvor Factor (Turp)					30Vac, rated o	utput power.						
3.Power Factor (Typ)				0.99 @ 200Va	c, rated outpu			1			,	
4.Efficiency (Typ) (*5) (*22)		%	88	89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
5.Inrush current (*6)		A	Less than 50/	Ą								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volt	age							
2.Max. Load regulation (*8)			0.01% of rate	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				llowing 30 mi						
6.Temperature stability								up. Constant lii		np.		
7. Warm-up drift			Less than 0.0	5% of rated o	utput voltage	+2mV over 30	minutes follo	wing power o				
8.Remote sense compensation/wire (	*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
	l 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	Time for out	out voltage to	recover with	in 0.5% of its r	ated output f	or a load chan	ge 10~90% o	f rated output	current. Out	tput set-point:
		Sec	10~100%, Lo Less than 6 Se		s inan 1mS, fo	n models up to	o and includir	ng 100V. 2mS, f	or models ab	ove IUUV.		
12.Start up delay		Sec	Less than 6 S	ec								
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.05% of rate	d output curr	rent.							
2.Max. Load regulation (*13)			0.08% of rate	d output curi	1							
3.Ripple r.m.s. @ rated voltage. 3-Pha		mA	≤800	≤450	≤300	≤150	≤100	≤70	≤45	≤30	≤12	≤5
4.Ripple r.m.s. @ rated voltage. 1-Phase	se (*14)	mA	≤1200	≤600	≤300	≤300	≤200	≤100	≤60	≤40	≤12	≤8
5.Temperature coefficient		PPM/°C						inutes warm-u				
								nutes warm-up				
6.Temperature stability								up. Constant lin				
7. Warm-up drift								0 minutes foll		on.		
			1500~6000:1	Less than +/-U	.15% of rated	output currer	it over 30 min	utes following	power on.			
ANALOG PROGRAMMING AND MON	ITORING (ISOLATED	FROM 7	THE OUTPUT)									
1.Vout voltage programming								0.15% of rated				
2.lout voltage programming (*15)						,		0.4% of rated				
3.Vout resistor programming								arity: +/-0.5% c				
4.lout resistor programming (*15)							racy and linea	arity: +/-0.5% c	f rated lout.			
5.Output voltage monitor					able. Accurac							
6.Output current monitor (*15)			0~5V or 0~10	V, user select	able. Accurac	y: +/-0.5%.		0				
SIGNALS AND CONTROLS (ISOLATED	FROM THE OUTPU	T)										
1. Power supply OK #1 signal			Power supply	y output mon	itor. Open col	lector. Output	: On: On. Outp	out Off: Off. Ma	iximum Volta	ige: 30V, Maxir	num Sink Cu	rrent: 10mA.
2. CV/CC signal			CV/CC Monit	or. Open colle	ector. CC mod	e: On. CV mod	e: Off. Maxim	um Voltage: 30	)V, Maximum	Sink Current:	10mA.	
3. LOCAL/REMOTE Analog control								dry contact. R				
4. LOCAL/REMOTE Analog signal			analog progr	amming conti	rol monitor sig	nal. Open coll	ector. Remote	: On. Local: Off	Maximum Vo	oltage: 30V, Ma	ximum Sink (	Current: 10mA.
5. ENABLE/DISABLE signal						·* ·		/ or short, 2~3			logic.	
6. INTERLOCK (ILC) control								e: 0~0.6V or sl				
7. Programmed signals								kimum sink cui				
8. TRIGGER IN / TRIGGER OUT signals			Maximum l	ow level inp	ut voltage =	0.8V,Minimu	m high leve	l input voltag	je = 2.5V, Ma	aximum high	level inpu	t = 5V positiv
		<sup> </sup>	3 33				num, Min de	elay between	∠ puises 1m	15.		
9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal					6V/2~30V or d pedance)=Fai							
TO: DAIST_001/PS_OK #2 signal			4~3V=0K, 0V	(50001111111	pedance)=rai	1						
FUNCTIONS AND FEATURES												
1. Parallel operation								ruction manua	Ι.			
2. Series operation						struction man						
3. Daisy chain								ir turn-on and				
4. Constant power control								ia the commur				
5. Output resistance control								ming via the co				
6. Slew rate control					e and Output he front panel		rogramming	range: 0.0001	~999.99 V/m	sec. or A/mSec	. Programm	ing via the
7. Arbitrary waveforms							colle Activati	on by commar	d via the con	munication n	orts or by th	o front papel
,				. to not steps	can be stored	memory	cens. Activati	on by commar		innunication p		e nonc panel.
PROGRAMMING AND READBACK		v	10	20	30	40	60	80	100	150	300	600
RS232/485, Optional IEEE(*19)(*2	0) Interfaces)											
1.Vout programming accuracy (*16)				d output volt								
				-		ated output cu	irrent					
2.lout programming accuracy (*15)			0.002% of rat	ed output vo	Itage			-				
2.lout programming accuracy (*15) 3.Vout programming resolution												
2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution				ed output cu								
2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution				ed output cu								
2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15)			0.05% of rate		tage							
2.lout programming accuracy (*15) 3.Vout programming resolution 4.lout programming resolution 5.Vout readback accuracy	)utput voltage)		0.05% of rate	ed output vol	tage	0.003%	0.002%	0.002%	0.011%	0.007%	0.004%	0.002%

### GENESYS<sup>™</sup> 3.4kW SERIES SPECIFICATIONS

Inate doupt voltage(*1)       V       10       20       30       40       60       60       100       150         Stated output power       W       3400       330       330       330       3300       330       330       330       330       330       330       330       330       330       300       300       300      <	t current (*2) t power CTERISTICS e/freq. 3 phase, 3 wire + Groun apput current at 3-Phase, 41 3-Phase, 41 3-Phase, 41 3-Phase, 41 1-Phase, 20 r (Typ) yp) (*5) (*22) nt (*6) DITAGE MODE	A           W           V           d (*4)              D0V models:           30V models:           D0V models:           D0V models:	340 (*3) 3400 10 3-Phase, 200V 3-Phase, 400V 3-Phase, 480V 1-Phase, 200V 12.5A @ 200Va		30-112	40-85	60-56	80-42	100-34	150-22.5	300-11.5	600-5.6
3.8.ated output power       W       3400       3400       3300       3400       3300       3400       3375         INPUT CHARACTERISTCS       V       10       20       30       40       60       80       100       150         11.nput voltage/freq.3 phase, 3 wire + Ground ("4")	t power CTERISTICS e/freq. 3 phase, 3 wire + Groun put current at 3-Phase, 4 3-Phase, 4 3-Phase, 4 1-Phase, 20 (Typ) (*5) (*22) nt (*6) DITAGE MODE	W           V           d (*4)           00V models:           00V models:           00V models:           00V models:           00V models:	3400 10 3-Phase, 200V 3-Phase, 400V 3-Phase, 480V 1-Phase, 200V 12.5A @ 200Va	1/0	30	40	60	80	100	150	300	600
NPUT CHARACTERISTICS         V         10         20         30         40         60         80         100         150           Linput voltage/freq. 3 phase, 3 wire + Ground (14)         3-Phase, 400/ models: 322-400/4, 47-63Hz (Covers 200/2304/4)         3-Phase, 400/ models: 324-400/4, 47-63Hz (Covers 200/2304/4)         3-Phase, 400/ models: 324-400/4, 47-63Hz (Covers 200/4215/4)         3-Phase, 400/4, 4	cTERISTICS           e/freq. 3 phase, 3 wire + Groun           aput current at           3-Phase, 4i           3-Phase, 4i           1-Phase, 4i           1-Phase, 4i           1-Phase, 4i           1-Phase, 2i           r (Typ)           y(P) (*5) (*22)           nt (*6)           DLTAGE MODE	V           d (*4)            D0V models:            30V models:            D0V models:	10 3-Phase, 200V 3-Phase, 400V 3-Phase, 480V 1-Phase, 200V 12.5A @ 200Va								11.5	5.6
1.hput voltage/freq.3 phase, 3 wire + Ground (%)         3-Phase, 400 models: 12 - 020/24, 47 - 6314: (Covers 300/400/15/a/d)           3-Phase, 400 models:         3-Phase, 400 models:	e/freq. 3 phase, 3 wire + Groun aput current at 3-Phase, 2( 3-Phase, 4( 3-Phase, 4( 1-Phase, 2( 1-Phase,	d (*4) 00V models: 00V models: 80V models: 00V models:	3-Phase, 200V 3-Phase, 400V 3-Phase, 480V 1-Phase, 200V 12.5A @ 200Va	3400	3360	3400	3360	3360	3400	33/5	3450	3360
1.hput voltage/freq. 3 phase, 3 wire + Ground (*4)	3-Phase, 20           3-Phase, 41           3-Phase, 44           3-Phase, 44           1-Phase, 20           r(Typ)           yp) (*5) (*22)           nt (*6)           DLTAGE MODE	00V models: 00V models: 80V models: 00V models:	3-Phase, 400V 3-Phase, 480V 1-Phase, 200V 12.5A @ 200Va					80	100	150	300	600
3-Pbase, 2007 models: 3-Pbase, 4007 models: 3-Pbase, 4007 models: 3-Pbase, 4007 models: 3-Pbase, 4007 models: 1-Pbase, 4007 models: 3-Pbase, 4007 models: 1-Pbase, 4007 models: 3-Pbase, 4007 models: 1-Pbase, 4007 models: 21A @ 2003/aC, rated output power.	3-Phase, 44           3-Phase, 44           1-Phase, 20           yp) (*5) (*22)           tt (*6)           DLTAGE MODE	00V models: 80V models: 00V models:	12.5A @ 200Va	models: 342 models: 342	~460Vac, 47~ ~528Vac, 47~	63Hz (Covers 63Hz (Covers	380/400/415\ 380/400/415/4	40/460/480Va	ac)			
3.Power Factor (Typ)	r (Typ) yp) (*5) (*22) rt (*6) DLTAGE MODE			ic	~203VaC, 47~(		200/208/230/2	40VaC)				
JANNE FACTO (Typ)         For 1-Phase. 0.99 @ 2004cc. rated output power.           Efficiency (Typ) (TS) (22)         %         & B         B9         B9.5         90         90.5         50.5         5         5         5         5         5	yp) (*5) (*22) ht (*6) DLTAGE MODE			94 @ 200/38	OVac_rated or	itput power	-	-	-		-	
Sinush current (*6)         A         Less than 50Å           CONSTANT VOLTAGE MODE         V         10         20         30         40         60         80         100         150           Max. Line regulation (*7)	DLTAGE MODE		For 1-Phase: 0	.99 @ 200Vac	, rated output	t power.						
1.Max. Line regulation (*7)        0.01% of rated output voltage + SmV         2.Max. Load regulation (*8)        0.01% of rated output voltage + SmV         3.Ripple and noise (p-, 20MHz) (*9)       mV       75       75       75       75       80       80       100       120         3.Ripple rm.s. SHz-1MHz (*9)       mV       8       10       10       12       15       15       20         STemperature coefficient       PPW/CS (Sortated Vout over 8hs interval following 30 minutes warm-up.       Constant line, load & temp.         STemperature coefficient				89	89.5	90	90	90.5	90.5	90.5	90.5	90.5
2.Max. Load regulation (*8)        0.01% of rated output voltage +5mV         3.Ripple and noise (p-p.20MHz) (*9)       mV       75       75       75       80       80       100       120         3.Ripple and noise (p-p.20MHz) (*9)       mV       8       10       10       12       15       15       120         S.Temperature coefficient       PPMV/C 50PFM/C from rated output voltage, following 30 minutes warm-up. Constant line, load & temp.         7.Warm-up drift        Less than 0.05% of rated voltow ore Rhs interval following 30 minutes warm-up. Constant line, load & temp.         7.Warm-up drift        Less than 0.05% of rated voltow ore Rhs interval following 30 minutes warm-up. Constant line, load & temp.         8.Remote sense compensation/wire (*10)       V       2       2       5       5       5       5       5         10.Down-prog.response time:       Full load (*11)       mS       30       30       30       30       30       100	1 (****	V	10	20	30	40	60	80	100	150	300	600
3.Ripple nm.se (p-p. 20MHz) (*9)         mV         75         75         75         80         80         100         120           4.Ripple r.m.s. SHz-IMHZ (*9)         mV         8         10         10         12         15         15         15         20           5.Temperature coefficient         PPM/C         S0PPM/C from rated output voltage.following 30 minutes warm-up.         Constant line, load & temp.           7.Warm-up drift	guiation (*/)		0.01% of rated	output volta	age							
4R. Haple runs. 5Hz-1MH2 (*9)       mV       8       10       10       12       15       15       15       20         5. Temperature coefficient       PPM/C       50PPM/C from rated output voltage, following 30 minutes warm-up. Constant line, load & temp.         7. Warm-up drift        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         9.Up-prog.Response time (*11)       mS       30       30       30       30       30       30       100	gulation (*8)		0.01% of rated	output volta	age +5mV			,		·		
STemperature coefficient         PPM/PC         SoPPM/PC from rated output voltage, following 30 minutes warm-up.           6.Temperature stability	oise (p-p, 20MHz) (*9)	mV	75	75	75	75	80	80	100	120	200	480
6.1emperature 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. Renote sense compensation/wire (*10)         V         2         2         5						1			15	20	60	100
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	coefficient	PPM/°C										
B.Remote sense compensation/wire (*10)         V         2         2         5	stability		0.01% of rated	Vout over 8	nrs interval fo	llowing 30 mir	nutes warm-u	p. Constant lir	ne, load & tem	ıp.		
PJUp-prog. Response time (*11)         mS         30         30         30         30         30         50         50         50         50           10. Down-prog.response time         Full load (*12)         mS         50         50         80         80         80         100         100         100         100           11. Transient response time         mS         50         60         800         900         1100         1300         2100         2000           11. Transient response time         mS         Step terms.         Less than 15%, for models up to and including 100V. 2mS, for models above 100V.           12. Start up delay         Sec         Less than 6 Sec         0.05% of rated output current.												
Full load (*11)         mS         50         50         80         80         100         100         100         100           10.Down-prog.response time         mS         50         50         80         80         100 </td <td>e compensation/wire (*10)</td> <td>V</td> <td>1</td> <td></td> <td></td> <td>T</td> <td>1</td> <td></td> <td></td> <td>5</td> <td>5</td> <td>5</td>	e compensation/wire (*10)	V	1			T	1			5	5	5
No. load (*12)         mS         450         600         800         900         1100         1300         2100         2000           11.Transient response time         mS         Time for output voltage to recover within 0.5% of fix ated output for a load change 10~90% of rated output 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           CONSTANT CURRENT MODE         V         10         20         30         40         60         80         100         150           1.Max. Line regulation (*13)          0.05% of rated output current.          0.05% of rated output current.	sponse time (*11)	mS	30	30	30	30	50	50	50	50	50	100
II. 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 10–100%, Local sense. Less than 1m5, for models up to and including 100V. 2m5, for models above 100V.         12. Start up delay       Sec       Less than 6 Sec         CONSTANT CURRENT MODE       V       10       20       30       40       60       80       100       150         I.Max. Load regulation (*7)        0.05% of rated output current.	response time	,									100 3000	200 3100
Sec       Less than 6 Sec         CONSTANT CURRENT MODE       V       10       20       30       40       60       80       100       150         LMax. Line regulation (*7)        0.05% of rated output current. </td <td></td> <td></td> <td>Time for outp</td> <td>ut voltage to</td> <td>recover withi</td> <td>n 0.5% of its ra</td> <td>ated output fo</td> <td>or a load chang</td> <td>ge 10~90% of</td> <td>rated output</td> <td></td> <td></td>			Time for outp	ut voltage to	recover withi	n 0.5% of its ra	ated output fo	or a load chang	ge 10~90% of	rated output		
1.Max. Line regulation (*7)        0.05% of rated output current.         2.Max. Load regulation (*13)        0.08% of rated output current.         3.Ripple r.m.s. @ rated voltage. 3-Phase (*14)       mA       ≤800       ≤300       ≤100       ≤70       ≤45       ≤30         4.Ripple r.m.s. @ rated voltage. 1-Phase (*14)       mA       ≤800       ≤600       ≤300       ≤300       ≤200       ≤100       ≤60       ≤40         5.Temperature coefficient       PPWrCC       10V-100V       100PPM/°C from rated output current, following 30 minutes warm-up.       5.Temperature stability        0.01% of rated lout over 8hs. interval following 30 minutes warm-up.       Constant line, load & temperature.         7. Warm-up drift        0.01% of rated lout over 8hs. interval following 30 minutes warm-up.       Constant line, load & temperature.         1.0V-100V model: Less than +/-0.15% of rated output current over 30 minutes following power on.        10V-600V: Less than +/-0.15% of rated output current over 30 minutes following power on.         ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.         2.lout voltage programming        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.         3.lout resistor programming (*15)	ay	Sec			and mis, ro	i moden up te		9 1001121110,1	or models db			
I.Max. Line regulation (*7)        0.05% of rated output current.         2.Max. Load regulation (*13)        0.08% of rated output current.         3.Ripple r.m.s. @ rated voltage. 3-Phase (*14)       mA       ≤800       ≤300       ≤100       ≤70       ≤45       ≤30         4.Ripple r.m.s. @ rated voltage. 1-Phase (*14)       mA       ≤800       ≤600       ≤300       ≤300       ≤200       ≤100       ≤60       ≤40         9.Temperature coefficient       PPM*C       10V~100V       100PPM/°C from rated output current, following 30 minutes warm-up.       500       ≤300       <	JRRENT MODE	V	10	20	30	40	60	80	100	150	300	600
2.Max. Load regulation (*13)        0.08% of rated output current.         3.Ripple r.m.s.@ rated voltage. 3-Phase (*14)       mA       ≤800       ≤300       ≤100       ≤70       ≤45       ≤30         4.Ripple r.m.s.@ rated voltage. 1-Phase (*14)       mA       ≤800       ≤600       ≤300       ≤300       ≤200       ≤100       ≤60       ≤40         5.Temperature coefficient       PPWrC       10V~100V       100PPM/°C from rated output current, following 30 minutes warm-up.       500       ≤00       70       ≤45       ≤300       ≤400         5.Temperature stability        0.01% of rated lout over 8hrs. interval following 30 minutes warm-up.       500       ≤000       700 wide! Less than +/-0.25% of rated output current over 30 minutes warm-up.         7. Warm-up drift        0.01% of rated lout over 8hrs. interval following 30 minutes warm-up.       500       ≤000×: Less than +/-0.15% of rated output current over 30 minutes following power on.         8.NALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)        0100%, 05V or 0-10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.       0100%, 05V or 0-10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.       0100%, 05/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.       0100%, 05/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.       0100%, 0												
Bit Ripple r.m.s.@ rated voltage. 3-Phase (*14)       mA       ≤800       ≤450       ≤300       ≤150       ≤100       ≤70       ≤45       ≤30         I.Ripple r.m.s.@ rated voltage. 1-Phase (*14)       mA       1200       ≤600       ≤300       ≤300       ≤200       5100       ≤60       ≤40         Stemperature coefficient       PPM/*C       10V-100V       100PPM/*C from rated output current, following 30 minutes warm-up.       510       ≤00       ≤400       ≤400         Stemperature stability        0.01% of rated lout over 8hrs. interval following 30 minutes warm-up.       Constant line, load & temperature.         0.Warm-up drift       10V-100V model: Less than +/-0.15% of rated output current over 30 minutes following power on.       10V-100W, oo 5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.         1.00ut voltage programming        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.         1.00ut voltage programming (*15)        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         1.00ut voltage monitor        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         0.010w, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.       0.0100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.	gulation (*13)											
I.Ripple r.m.s. @ rated voltage. 1-Phase (*14)       mA       ≤1200       ≤600       ≤300       ≤300       ≤200       ≤100       ≤60       ≤400         5.Temperature coefficient       PPWrC2       100/-100V       100PPM/°C from rated output current, following 30 minutes warm-up.       .       .         5.Temperature stability        0.01% of rated lout over 8 hrs. interval following 30 minutes warm-up.       .	5	mA	1			≤150	≤100	≤70	≤45	≤30	≤12	≤5
Internet in the second state         PPW/°         10V-100V         100PPM/°C from rated output current, following 30 minutes warm-up.           Internet in the second state in the second st											≤12	≤8
1500-5000       /0PPM/VC Trom rated output Current, foilowing 30 minutes warm-up.         Temperature stability        0.01% of rated lout over 8hrs, interval following 30 minutes warm-up. Constant line, load & temperature.         Warm-up drift        0.01% of rated lout over 8hrs, interval following 30 minutes warm-up. Constant line, load & temperature.         NALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)        10V-100V model: Less than +/-0.15% of rated output current over 30 minutes following power on.         NALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated lout.         Nout voltage programming (*15)        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         Nout resistor programming (*15)        0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         Noutput current monitor        0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         Output voltage monitor        0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         Output voltage monitor        0~5V or 0~10V, user selectable. Accuracy +/-0.5%.         Output voltage monitor        0~5V or 0~10V, user selectable. Accuracy +/-0.5%.         IGKALS AND CONTROLS (IS			10V~100V	100PPM/°C fr	om rated out	put current, fo	llowing 30 m	nutes warm-u	ıp.			
Warn-up drift       IOV~100V model: Less than +/-0.25% of rated output current over 30 minutes following power on. ISOV~600V: Less than +/-0.15% of rated output current over 30 minutes following power on.         ANALOG PROGRAMMING AND MONITORING (ISOLATED FROM THE OUTPUT)       IOV~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 (*15)        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         3.Output voltage monitor       0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         5.Output voltage monitor        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         6.Output current monitor (*15)        0~100%, 0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         5.Output current monitor (*15)        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         6.OEXTAPE FROM THE OUTPUT)        Power supply output monitor. Open collector. Output Or: On. Output Off: Off. Maximum Voltage: 30V, Maximus         2. CV/CC Signal        CV/CC Monitor. Open collector. C mode: On. CV mode: Off. Maximum Voltage: 30V, Maximus         3. LOCAL/REMOTE Analog control        Enable/Disable PS output by electrical signal or dry contact. 0~0.6V or short. Lo							-			Poratura		
1500-6000: 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 (*15)          0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.15% of rated Vout.         2.Jout voltage programming (*15)          0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated Vout.         4.Jout resistor programming (*15)          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 and linearity: +/-0.5% of rated lout.         5.Output voltage monitor          0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         5.Output voltage monitor          0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         5.Output current monitor (*15)          0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)         1. Power supply 0K #1 signal          Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current:         2. CV/CC Signal          LOCAL/REMOTE Analog contro												
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: +/-0.15% of rated lout.         3.Vout resistor programming (*15)        0~100%, 0~5V or 0~10V, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         3.Vout resistor programming (*15)        0~100%, 0~5/10Kohm full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         4.lout resistor programming (*15)        0~500%, 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%.         6.Output current monitor (*15)        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)       1. Power supply 0K #1 signal          1. Power supply 0K #1 signal        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current:         2. CV/CC signal        CV/CC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V, Maximum Sink Current:         3. LOCAL/REMOTE Analog signal        Enable/Disable analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Voltage: 30V, Maximum Voltage: 30V, Max			150V~600V: Le	ess than +/-0.	.15% of rated	output curren	t over 30 mini	utes following	power on.			
2.lout voltage programming (*15)        0~100%, 0~5/ vor 0~10V, user selectable. Accuracy and linearity: +/-0.4% of rated lout.         3.Vout resistor programming (*15)        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 Vout.         5.Output voltage monitor        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         6.Output current monitor (*15)        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximus SiA Current:         1. Power supply OK #1 signal        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Sink Current:         2. CV/CC signal        CV/CC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V, Maximus Sink Current:         3. LOCAL/REMOTE Analog signal        Enable/Disable analog programming control monitor signal. Open collector. Remote: O~. Local: Off. Maximum Voltage: 30V, Maz         4. LOCAL/REMOTE Kinalog signal        Enable/Disable PS output by electrical signal or dry contact. Remote: 0~. Local: Off. Maximum Voltage: 30V, Maz         5. ENABLE/DISABLE signal        Enable/Disable PS output by electrical si			1	/ or 0~10V. us	er selectable.	Accuracy and	linearity: +/-	0.15% of rated	Vout.			
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%.         6.Output current monitor (*15)        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maxim         1. Power supply OK #1 signal        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maxim         2. CV/CC Signal        CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current:         3. LOCAL/REMOTE Analog control        Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0. KV or short. Loca         4. LOCAL/REMOTE Analog signal        Enable/Disable PS output by electrical signal or dry contact. 0~0. KV or open. User selectable         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												
5.Output voltage monitor        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         6.Output current monitor (*15)        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)        Power supply OK #1 signal          1. Power supply OK #1 signal        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum 2. CV/CC Signal        CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current:         3. LOCAL/REMOTE Analog control        Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0. Local: Off. Maximum Voltage: 30V, Maximum Voltage: 3												
6.Output current monitor (*15)        0~5V or 0~10V, user selectable. Accuracy: +/-0.5%.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current:         1. Power supply OK #1 signal        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current:         2. CV/CC signal        CV/CC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V, Maximum Sink Current:         3. LOCAL/REMOTE Analog control        Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0. Local: Off. Maximum Voltage: 30V, Ma         4. LOCAL/REMOTE Analog signal        Enable/Disable PS output by electrical signal or dry contact. 0~0. More : 30V, Mage: 30V, Ma         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	programming (*15)		0~100%, 0~5/	10Kohm full	scale, user sel	ectable. Accur	racy and linea	rity: +/-0.5% c	f rated lout.			
SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)         1. Power supply OK #1 signal         2. CV/CC Signal         3. LOCAL/REMOTE Analog control          Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0-0.6V or short. Loc         4. LOCAL/REMOTE Analog signal          5. ENABLE/DISABLE signal	ge monitor		0~5V or 0~10\	/, user selecta	able. Accuracy	y: +/-0.5%.						
1. Power supply OK #1 signal        Power supply output monitor. Open collector. Output On: On. Output Off: Off. Maximum Voltage: 30V, Maxim 2. CV/CC Signal         2. CV/CC signal        CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current:         3. LOCAL/REMOTE Analog control        Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Loc         4. LOCAL/REMOTE Analog signal        analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Ma         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	ent monitor (*15)		0~5V or 0~10\	/, user selecta	able. Accuracy	y: +/-0.5%.						
2. CV/CC signal          CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current:           3. LOCAL/REMOTE Analog control          Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Loc           4. LOCAL/REMOTE Analog signal          analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Ma           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	CONTROLS (ISOLATED FROM	,										
3. LOCAL/REMOTE Analog control        Enable/Disable analog programming control by electrical signal or dry contact. Remote: 0~0.6V or short. Loc         4. LOCAL/REMOTE Analog signal        analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Ma         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												ent: 10mA.
4. LOCAL/REMOTE Analog signal          analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Ma           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									<u> </u>			
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												
												rrent: 10mA
6. IN I ERLOCK (ILC) control    Enable/Disable PS output by electrical signal or dry contact. Remote: 0~0.6V or short. Local: 2~30V or open.											logic.	
	UL() control										N/==== `	
7. Programmed signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 25 3. TRIGGER IN / TRIGGER OUT signals Maximum low level input voltage = 0.8V, Minimum high level input voltage = 2.5V, Maximum high display to the programmable signals. Maximum Ta Té intervence and the programmable signals.			Maximum lo	w level inpu	ut voltage = (	0.8V.Minimu	m high level	input voltad	e = 2.5V. Ma	ximum high		= 5V positi
3. TRIGGER IN / TRIGGER OUT signals	d signals		edge trigger	: tw=10us m	ninimum. Tr,	Tf=1us Maxin	num, Min de	lay between	2 pulses 1m	s.	-	
10. DAISY_OUT/PS_OK #2 signal      4~5V=OK, 0V (500 ohm impedance)=Fail	d signals / TRIGGER OUT signals			-		,						
FUNCTIONS AND FEATURES	d signals / TRIGGER OUT signals ) control signal											
	d signals / TRIGGER OUT signals D control signal I/PS_OK #2 signal			4 identical	inits in Maste	r/Slave mode	Refer to instr	uction manua	1			
	d signals / TRIGGER OUT signals O control signal //PS_OK #2 signal ND FEATURES		4~5V=OK, 0V									
B. Daisy chain      Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration	 	4~5V=OK, 0V Possible. Up to	identical unit								
. Constant power control	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration		4~5V=OK, 0V Possible. Up to Possible. Two					r turn-on and	turn-off			
. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration tion	    	4~5V=OK, 0V Possible. Up to Possible. Two Power supplie	s can be con	nected in Dai	sy chain to syr	nchronize thei			or the front pa	anel.	
Slew rate control Programmable Output rise and Output fall slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec communication ports or the front panel.	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration tion wer control		4~5V=OK, 0V Possible. Up to Possible. Two Power supplie Limits the out Emulates serie	es can be con put power to es resistance.	nected in Dais a proggramn Resistance ra	sy chain to syr ned value. Pro nge: 1~1000n	nchronize thei gramming via nΩ. Programn	a the commun ning via the co	ication ports mmunicatior	n ports or the l	front panel.	
Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication p	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ation tion wer control tance control		4~5V=OK, 0V Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl	es can be con put power to es resistance. e Output rise	nected in Dais a proggramn Resistance ra and Output f	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P	nchronize thei gramming via nΩ. Programn	a the commun ning via the co	ication ports mmunicatior	n ports or the l	front panel.	g via the
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE(*19)(*20) Interfaces)         V         10         20         30         40         60         80         100         150	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ation tion wer control tance control ntrol		4~5V=OK, 0V Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl communicatio	es can be con put power to es resistance. e Output rise on ports or th	nected in Dais a proggramm Resistance ra and Output f he front panel.	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P	nchronize thei Igramming via nΩ. Programn Programming	a the commun ning via the co range: 0.0001	ication ports ommunication ~999.99 V/mS	n ports or the l ec. or A/mSec	front panel. . Programmin	
I.Vout programming accuracy (*16)          0.05% of rated output voltage           Data programming accuracy (*15)         0.1% of actual output voltage	d signals / TRIGGER OUT signals O control signal //PS_OK #2 signal ND FEATURES ration wer control tance control tance control ntrol veforms ING AND READBACK (USB, L Dptional IEEE(*19)(*20) Inter	        AN, V	4~5V=OK, OV Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl Programmabl Profiles of up 10	es can be com put power to es resistance. e Output rise on ports or th to 100 steps o 20	nected in Dais a proggramm Resistance ra and Output f ie front panel can be stored <b>30</b>	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P in 4 memory o	nchronize thei gramming via nΩ. Programn Programming cells. Activatio	a the commun ning via the cc range: 0.0001 n by comman	ication ports ommunication ~999.99 V/mS id via the com	n ports or the f ec. or A/mSec munication p	front panel. . Programmin	
	d signals / TRIGGER OUT signals / TRIGGER OUT signal Control signal //PS_OK #2 signal ND FEATURES ration wer control tance control tance control ntrol NG AND READBACK (USB, L Optional IEEE(*19)(*20) Inter mming accuracy (*16)	      AN, Y 	4~5V=OK, OV Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl communicati Profiles of up <b>10</b> 0.05% of ratec	s can be com put power to es resistance. e Output rise on ports or th to 100 steps o 20 I output volta	nected in Dai: a proggramm Resistance ra and Output f e front panel can be stored <b>30</b> age	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P in 4 memory o <b>40</b>	nchronize thei Igramming via nΩ. Programm Programming cells. Activatic	a the commun ning via the cc range: 0.0001 n by comman	ication ports ommunication ~999.99 V/mS id via the com	n ports or the f ec. or A/mSec munication p	front panel. . Programmin orts or by the	front panel
Wout programming recolution	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration tion wer control tance control tance control ntrol veforms ING AND READBACK (USB, J Diptional IEEE(*19)(*20) Inter mming accuracy (*15)	       AN, faces)   	4~5V=OK, OV Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl communicatic Profiles of up 1 10 0.05% of ratect 0.1% of actual	s can be com put power to es resistance. e Output rise on ports or th to 100 steps o 20 I output volta output curre	nected in Dais a proggramm Resistance ra and Output f e front panel can be stored 30 age ent+0.2% of ra	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P in 4 memory o <b>40</b>	nchronize thei Igramming via nΩ. Programm Programming cells. Activatic	a the commun ning via the cc range: 0.0001 n by comman	ication ports ommunication ~999.99 V/mS id via the com	n ports or the f ec. or A/mSec munication p	front panel. . Programmin orts or by the	front panel
	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration tition wer control tance control ntrol veforms NG AND READBACK (USB, L vptional IEEE(*19)(*20) Inter mming accuracy (*16) mming accuracy (*15) mming resolution	       AN, faces) V  	4~5V=OK, 0V Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl communicatic Profiles of up <b>10</b> 0.05% of rateco 0.1% of actual 0.002% of rate	s can be com put power to es resistance. e Output rise on ports or th to 100 steps o <b>20</b> I output volta output volta	nected in Dais a proggramm Resistance ra and Output f e front panel can be stored 30 age ent+0.2% of ra tage	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P in 4 memory o <b>40</b>	nchronize thei Igramming via nΩ. Programm Programming cells. Activatic	a the commun ning via the cc range: 0.0001 n by comman	ication ports ommunication ~999.99 V/mS id via the com	n ports or the f ec. or A/mSec munication p	front panel. . Programmin orts or by the	front panel
4.lout programming resolution 0.002% of rated output current	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration tion wer control tance control tance control ntrol veforms ING AND READBACK (USB, I Optional IEEE(*19)(*20) Inter mming accuracy (*16) amming resolution	       faces)        -	4~5V=OK, 0V Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmable communicatio Profiles of up i <b>10</b> 0.05% of rateo 0.1% of actual 0.002% of rate	s can be com put power to es resistance. e Output rise on ports or th to 100 steps of <b>20</b> d output volta output volta d output volta d output vol	nected in Dais a proggramm Resistance ra and Output f ie front panel. can be stored 30 age ntt+0.2% of ra tage rent	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P in 4 memory o <b>40</b>	nchronize thei Igramming via nΩ. Programm Programming cells. Activatic	a the commun ning via the cc range: 0.0001 n by comman	ication ports ommunication ~999.99 V/mS id via the com	n ports or the f ec. or A/mSec munication p	front panel. . Programmin orts or by the	front panel
4.lout programming resolution      0.002% of rated output current       5.Vout readback accuracy      0.05% of rated output voltage	d signals / TRIGGER OUT signals / TRIGGER OUT signal //PS_OK #2 signal ND FEATURES ration wer control tance control tance control NIG AND READBACK (USB, I Pptional IEEE(*19)(*20) Inter nming accuracy (*15) nming resolution ct accuracy	AN, V faces) V        -	4~5V=OK, OV Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl communicatio Profiles of up to 0.05% of rateo 0.002% of rateo 0.002% of rateo 0.005% of rateo	s can be com put power to es resistance. e Output rise on ports or th to 100 steps of <b>20</b> I output volta output volta d output volta d output volt d output volt	nected in Dai: a proggramm Resistance ra and Output f e front panel. can be stored 30 age nnt+0.2% of ra tage rent age	sy chain to syr ned value. Pro nge: 1~1000n fall slew rate. P in 4 memory o <b>40</b>	nchronize thei Igramming via nΩ. Programm Programming cells. Activatic	a the commun ning via the cc range: 0.0001 n by comman	ication ports ommunication ~999.99 V/mS id via the com	n ports or the f ec. or A/mSec munication p	front panel. . Programmin orts or by the	front panel
4.lout programming resolution 0.002% of rated output current	d signals / TRIGGER OUT signals D control signal //PS_OK #2 signal ND FEATURES ration wer control tance control tance control ntrol veforms ING AND READBACK (USE, L Dptional IEEE(*19)(*20) Inter mming accuracy (*15) mming resolution hmming resolution hmming cesolution htming cesolu	       AN, faces) V       	4~5V=OK, OV Possible. Up to Possible. Two Power supplie Limits the out Emulates serie Programmabl communicatic Profiles of up 1 <b>10</b> 0.05% of rateo 0.002% of rateo 0.002% of rated 0.005% of rated	s can be com put power to ss resistance. e Output rise n ports or th to 100 steps or <b>20</b> I output volta output curre ed output curre d output volt output volt	nected in Dais a proggramm Resistance ra and Output f ef ront panel can be stored 30 age ntt-0.2% of ra tage rent age nt	sy chain to syr ned value. Pro nge: 1~1000n ial slew rate. P in 4 memory o 40 tted output cu	nchronize thei Igramming via nΩ. Programm Programming cells. Activatio 60 rrrent	a the commun ning via the cc range: 0.0001 n by comman 80	ication ports ommunication ~999.99 V/mS id via the com 100	n ports or the lec. or A/mSec munication p 150	front panel. . Programmin orts or by the	front panel

### GENESYS<sup>™</sup> 5kW SERIES SPECIFICATIONS

OUTPUT RATING		G	10-500	20-250	30-170	40-125	50-100	60-85	80-65	100-50	150-34	200-25	300-17	400-13	500-10	600-8.
1.Rated output voltage(*1)		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2.Rated output current (*2)		A	500 (*3)	250	170	125	100	85	65	50	34	25	17	13	10	8.5
3.Rated output power		W	5000	5000	5100	5000	5000	5100	5200	5000	5100	5000	5100	5200	5000	5100
INPUT CHARACTERISTICS		V	10 3-Phase,	20 200V mod	30 dels: 170~2	40 265Vac, 47	50 ~63Hz (Co	60 overs 200/	80 (230Vac)	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wi	ire + Ground (*4)		3-Phase,	400V mod	dels: 342~4	460Vac, 47	′~63Hz (C	overs 380	/400/415\	/ac) 40/460/48	30Vac)					
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models:		17.5A @ 2 9.2A @ 38 9.2A @ 38	0Vac												
3.Power Factor (Typ)					, rated out											
4.Efficiency (Typ) (*5) (*22) 5.Inrush current (*6)		% A	89 (*21) Less than	91 50A	91	91	90	91	91	91	91	91	92	92	92	92
			·													
CONSTANT VOLTAGE MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					out voltag											
2.Max. Load regulation (*8)					out voltag	r										
3.Ripple and noise (p-p, 20MHz) (*	*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient			50PPM/°C													
6.Temperature stability										p. Constar		d & temp.				
7. Warm-up drift					r i				utes follo	wing pow				-	-	
8.Remote sense compensation/wi	ire (*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
10 Down-prog response time -	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
	No load (*12)	mS	300 Timo for	600	800	900	950	1000	1200	1900 In 1900	2000	2500	3000	4000	4000	3000
11.Transient response time		mS	10~100%	output vo . Local se	itage to re	ecover wit han 1mS f	nın 0.5% d for model	or its rated s up to an	i output fo d includin	or a load cl g 100V. 2n	nange 10~ nS, for mo	-90% of ra dels abov	ited outpi e 100V.	ut current.	Output s	et-poin
12.Start up delay		Sec	Less than					- ap to ull	cruum	3						
											45.5					
CONSTANT CURRENT MODE		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)					put currer											
2.Max. Load regulation (*13)					put currer											
3.Ripple r.m.s. @ rated voltage. B.V	V 5Hz~1MHz (*14)	mA	≤1200	≤600	≤300	≤150	≤130	≤100	≤70	≤45	≤45	≤45	≤15	≤12	≤10	≤8
5.Temperature coefficient		PPM/°C	10V~100\							inutes war						
							<u> </u>		-	utes warn						
6.Temperature stability										p. Constar		· · ·				
7. Warm-up drift				/ model: L	ess than +											
				01/ L +l				· ·			following		۱.			
			150V~600	0V: Less th				· ·		0 minutes utes follov			1.			
ANALOG PROGRAMMING AND M	IONITORING (ISOLATED	FROM T						· ·					1.			
	IONITORING (ISOLATED	FROM T	HE OUTPU	JT)	nan +/-0.15	5% of rate	d output o	urrent ov	er 30 mini		ving powe	er on.	1.			
1.Vout voltage programming			HE OUTPU 0~100%,	<b>JT)</b> 0~5V or 0	nan +/-0.15 ~10V, use	5% of rate	d output o le. Accura	cy and line	er 30 mini earity: +/-i	utes follov	ving powe	er on.	1.			
1.Vout voltage programming 2.lout voltage programming (*15)			HE OUTPU 0~100%, 0~100%,	JT) 0~5V or 0 0~5V or 0	~10V, use	5% of rate r selectab r selectab	d output o le. Accura le. Accura	cy and line	earity: +/-( earity: +/-(	utes follov 0.15% of ra	ving powe ated Vout. ted lout.	er on.	ı.			
ANALOG PROGRAMMING AND M 1.Vout voltage programming 2.lout voltage programming (*15) 3.Vout resistor programming 4.lout resistor programming (*15)	)		HE OUTPU 0~100%, 0~100%, 0~100%,	<b>JT)</b> 0~5V or 0 0~5V or 0 0~5/10Ko	nan +/-0.15 ~10V, user ~10V, user hm full sc	5% of rate r selectab r selectab ale, user s	d output o le. Accura le. Accura electable.	cy and line cy and line cy and line Accuracy	earity: +/-( earity: +/-( earity: +/-( and linea	utes follov 0.15% of ra 0.4% of rat	ving powe ated Vout. ted lout. 5% of rated	d Vout.	l			
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1.Vout voltage programming     2.lout voltage programming (*15)     3.Vout resistor programming (*15)     5.Output voltage monitor     6.Output current monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA</b> 1. Power supply OK #1 signal     2. CV/CC signal     3. LOCAL/REMOTE Analog signal     5. ENABLE/DISABLE signal     6. INTERLOCK (ILC) control     7. Programmed signals     8. TRIGGER IN / TRIGGER OUT 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. Gutput resistance control     6. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBAM RS232/485, Optional IEEE(*19)     1.Vout programming resolution     4.lout programming resolution	TED FROM THE OUTPUT		HE OUTPL 0~100%, 0~100%, 0~100%, 0~100%, 0~5V or C 0~5V or C 0~5V or C Power su CV/CC Mc Enable/D Enable/D Enable/D Two oper Maximu positive By electri 4~5V=OK Possible. Possible. Power su Limits the Emulates Program commun Profiles o 10 0.05% of ac 0.002% o 0.002% o	JT) 0~5V or 0 0~5V or 0 0~5/10Ka	ann +/-0.15 ~10V, user ~10V, user hm full sc thm full sc er selectab er selectab er selectab er selectab er selectab er selectab er selectab en collect alog programal vel input by output se oner to a istance. R tput rise a ots or the 0 steps ca <b>30</b> put voltag put voltag	s% of rate: r selectabl r selectabl r selectabl ale, user s ale, user s ale, user s ale, user s ale, accurate or. Open cc or. CC mo or.	d output d le. Accura le. Accura electable. cy: +/-0.5 cy: +/-0.5 cy: -/-0.5 cy: -/-0.5	cy and line cy and line cy and line cy and line Accuracy Accuracy % of ratec % of ratec work of ratec autput On: 7 mode: O electrical n collecto dry conta dry conta dry conta dry conta dry conta dry conta m voltage nimum h r,Tf=1us N ct.	er 30 minu earity: +/-i earity: +/-i and linea and linea and linea and linea and linea and linea and linea and linea son son son concourt ff. Maximu signal or - r. Remote: concourt signal or - r. Remote: concourt signal or - concourt signal	utes follov 0.15% of ra 0.4% of rata 0.4% of rata rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltag dry contac On. Local: or short, 2 e: 0~0.6V imum sink input vo imum sink input vo n, Min del uction ma r turn-on a the com ning via th range: 0.0	ving powe ated Vout. ted lout. 5% of rates 5% of rate	er on. d Vout. d lout. m Voltage ximum Sile: 0~0.6V of mum Volta ppen. Usee ocal: 2~3C 00MA (Sh .5V, Maxia een 2 pul more pow off. n ports or nication p 99 V/mSect the comm	:: 30V, Max nk Curren or short. L nge: 30V, M rs selectab V or oper unted by imum hig ises 1ms. er please the front orts or th c. or A/mS	t: 10mA. ocal: 2~30 laximum S le logic. h. 27V zener gh level ir consult wi panel. e front pa ec. Progra	V or oper ink Currer ) nput = 5\ ith Factor nel. mming vi by the from	st: 10mA / / / a the st panel
1.Vout voltage programming     2.lout voltage programming (*15)     3.Vout resistor programming (*15)     3.Vout resistor programming (*15)     5.Output voltage monitor     6.Output current monitor (*15)     SIGNALS AND CONTROLS (ISOLA'     1. Power supply OK #1 signal     2. CV/CC signal     3.LOCAL/REMOTE Analog 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_OUT/PS_OK #2 signal     FUNCTIONS AND FEATURES     1. Parallel operation     3. Daisy chain     4. Constant power control     5. Output resistance control     6. Slew rate control     7. Arbitrary waveforms     PROGRAMMING AND READBAA     RS232/485, Optional IEEE(*19)     1.Vout programming accuracy (*16     3.Vout programming resolution     5.Vout readback accuracy	TED FROM THE OUTPUT		HE OUTPL           0~100%,           0~100%,           0~100%,           0~100%,           0~5V or 0           0~5V or 0           0~5V or 0           Power su           CV/CC Mc           Enable/D           analog pr           Enable/D           Enable/D           By electri           4~5V=OK           Possible.           Power su           Limits the           Emulates           Program           commun           0.05% of 1           0.1% of act           0.002% o           0.002% o           0.002% o           0.05% of	JT) 0~5V or 0 0~5V or 0 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~70V, use pply outp pnitor. Op isable and ogrammin isable PS isable PS isable PS odrain pro- m low lee edge trig- cal Voltag c, 0V (5000 Up to 4 id Two iden pplies car e output p series res- mable Out cation pc f up to 10 20 rated out rated out rated out	Ann +/-0.15 10V, user 10V, user 10V, user 10V, user 	r selectabl r selectabl r selectabl ale, user s ale, u	d output d le. Accura le. Accura electable. cy: +/-0.5 cy: +/-0.5 cy: -/-0.5 cy: -/-0.5	cy and line cy and line cy and line cy and line Accuracy Accuracy % of ratec % of ratec wo of ratec response re	er 30 minu earity: +/-i earity: +/-i and linea a and linea a and linea a and linea a and linea a lovat. I lout. con. Outp ff. Maximu signal or - r. Remote: ct. 0~0.6V ct. 0~0.6	utes follov 0.15% of ra 0.4% of rata 0.4% of rata rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltag dry contac On. Local: or short, 2 e: 0~0.6V imum sink input vo imum sink input vo n, Min del uction ma r turn-on a the com ning via th range: 0.0	ving powe ated Vout. ted lout. 5% of rates 5% of rate	er on. d Vout. d lout. m Voltage ximum Sile: 0~0.6V of mum Volta ppen. Usee ocal: 2~3C 00MA (Sh .5V, Maxia een 2 pul more pow off. n ports or nication p 99 V/mSect the comm	:: 30V, Max nk Curren or short. L nge: 30V, M rs selectab V or oper unted by imum hig ises 1ms. er please the front orts or th c. or A/mS	t: 10mA. ocal: 2~30 laximum S le logic. h. 27V zener gh level ir consult wi panel. e front pa ec. Progra	V or oper ink Currer ) nput = 5\ ith Factor nel. mming vi by the from	st: 10mA / / / a the st panel
1.Vout voltage programming     2.lout voltage programming (*15)     3.Vout resistor programming (*15)     5.Output voltage monitor     6.Output voltage monitor (*15) <b>SIGNALS AND CONTROLS (ISOLA'</b> 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     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 READBAM RS232/485, Optional IEEE(*19)     1.Vout programming resolution     4.lout programming resolution	TED FROM THE OUTPUT		HE OUTPL           0~100%,           0~100%,           0~100%,           0~100%,           0~5V or 0           0~5V or 0           0~5V or 0           Power su           CV/CC Mc           Enable/D           analog pr           Enable/D           Enable/D           By electri           4~5V=OK           Possible.           Power su           Limits the           Emulates           Program           commun           0.05% of 1           0.1% of act           0.002% o           0.002% o           0.002% o           0.05% of	JT) 0~5V or 0 0~5V or 0 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~5/10Ka 0~70V, use pply outp pnitor. Op isable and ogrammin isable PS isable PS isable PS odrain pro- m low lee edge trig- cal Voltag c, 0V (5000 Up to 4 id Two iden pplies car e output p series res- mable Out cation pc f up to 10 20 rated out rated out rated out	han +/-0.15	r selectabl r selectabl r selectabl ale, user s ale, u	d output d le. Accura le. Accura electable. cy: +/-0.5 cy: +/-0.5 cy: -/-0.5 cy: -/-0.5	cy and line cy and line cy and line cy and line Accuracy Accuracy % of ratec % of ratec wo of ratec response re	er 30 minu earity: +/-i earity: +/-i and linea a and linea a and linea a and linea a and linea a lovat. I lout. con. Outp ff. Maximu signal or - r. Remote: ct. 0~0.6V ct. 0~0.6	utes follov 0.15% of ra 0.4% of rata 0.4% of rata rity: +/-0.5 rity: +/-0.5 ut Off: Off um Voltag dry contac On. Local: or short, 2 e: 0~0.6V imum sink input vo imum sink input vo n, Min del uction ma r turn-on a the com ning via th range: 0.0	ving powe ated Vout. ted lout. 5% of rates 5% of rate	er on. d Vout. d lout. m Voltage ximum Sile: 0~0.6V of mum Volta ppen. Usee ocal: 2~3C 00MA (Sh .5V, Maxia een 2 pul more pow off. n ports or nication p 99 V/mSect the comm	:: 30V, Max nk Curren or short. L nge: 30V, M rs selectab V or oper unted by imum hig ises 1ms. er please the front orts or th c. or A/mS	t: 10mA. ocal: 2~30 laximum S le logic. h. 27V zener gh level ir consult wi panel. e front pa ec. Progra	V or oper ink Currer ) nput = 5\ ith Factor nel. mming vi by the from	st: 10mA / / / a the st panel

#### GENESYS<sup>™</sup> 2.7kW/3.4kW/5kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Foldback protection			Output sh User pres	nut-down etable. Re	when po set by AC	wer suppl input rec	y changes i sycle in auto	mode from ostart mod	n CV or Po le, by Pow	wer Limit t er Switch,	o CC mod by OUTPU	e or from T button,	CC or Pow by rear pa	er Limit to anel or by	CV mode	ation.
2.Over-voltage protection (OVP)			Output sh	nut-down.	Reset by	AC input	recycle in a	utostart m	node, by C	UTPUT bu	tton, by re	ar panel o	or by com	municatio	n.	
3.Over -voltage programming ran	ige	V	0.5~12	1~24	2~36	2~44.1	55-55.125	5~66.15	5~88.2	5~110.25	5~165.37	5~220.5	5~330.75	5~441	5~551.25	5~661
4. Over-voltage programming acc	curacy		+/-1% of r	ated outp	ut voltag	e										
5.Output under voltage limit (UVL	_)						mit. Does n		n analog p	rogrammi	ng. Preset	by front p	anel or co	ommunica	tion port.	
6.Over temperature protection							/ by autosta	art mode.		_						
7. Output under voltage limit (UV	L)		Prevents	adjustme	nt of Vout	below lin	nit.									
8. Output under voltage protectio	on (UVP)						nit. P.S outp utton, by re					tion. Rese	t by AC in	put recycl	e in autost	art
FRONT PANEL																
1.Control functions			Multiple of													
			Vout/lout													
			OVP/UVL/													
							oldback, C									
							of LAN,IEE	E,RS232,RS	485,USB (	or Optiona	commun	ication in	terface.			
			Output O				(0.10									
							of Baud Ra									
							/oltage/res				VIUK pro	gramming	]			
2 Display							of Voltage/ d output vo			50/100.						
2.Display							output vo									
3.Front Panel Buttons Indications												VSTEM S		R		
S.FIOIILFallel Buttons indications				. ,		, ,				,						
4. Front Panel Display Indications			(commun	ication), F	S/USB/LA	N/IEEE co	ternal Volta ommunicat	ige, Exterr ion, Trigge	r, Load/St	t, Address, ore Cell.	LFP, Auto:	start, Safe	tstart, Fol	dback 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% F	RH (no cor	ndensatio	n).										
4.Storage humidity		%	10~95% F	H (no cor	densatio	n).										
5.Altitude (*17)			Operating	g: 10000ft	(3000m),	output cu	irrent derat	ing 2%/10	0m or Ta c	lerating 1°	C/100m ab	ove 2000	m. Non op	perating: 4	0000ft (12	000m).
MECHANICAL																
1.Cooling			Forced air	r coolina b	ov interna	l fans. Air	flow direct	ion: from l	- ront pan	el to powe	supply re	ar				
2.Weight		kg	2.7kW/3.4	<u> </u>	<i>'</i>				<u> </u>	ss than 7.5						
3.Dimensions (WxHxD)		mm	W: 423, I	H: 43.6, D	): 441.5 (	Without	busbars a g busbars	nd busba and busb	rs cover),		-	drawing	).			
4.Vibration							test conditi			, (			,-			
5.Shock							is unpacked		C-2.1.3.1							
5.510CK			Less than	200, 11811	sine, min	Sec. Onit	випраскес	J.								
SAFETY/EMC																
1.Applicable standards:	Safety		UL61010-	1, CSA22.2	2 No.6101	0-1, IEC61	010-1, EN61	010-1.								
1.1. Interface classification							,J5,J6,J7,J8 sense) are h						ion optior	s) are SEL	V	
1.2 Withstand voltage			Vout ≤40 60V≤Vou Output - 100 <vou< td=""><td>V Models t≤100V M Ground: t≤600V M</td><td>s: Input - lodels: Ir 1500VDC lodels: Ir</td><td>Output (S nput - Ou C 1min, In put - Ou</td><td>SELV): 424 tput: 4242' iput - Grou tput: 4242' iput - Grou</td><td>2VDC 1m VDC 1min nd: 2835 VDC 1min</td><td>in, Input , Input - S /DC 1mir , Input - S</td><td>- Ground: SELV: 424 1. SELV: 424</td><td>2835VD0 2VDC 1m</td><td>C 1min. iin, Outpu</td><td>it - SELV:</td><td>850VDC</td><td>1min,</td><td></td></vou<>	V Models t≤100V M Ground: t≤600V M	s: Input - lodels: Ir 1500VDC lodels: Ir	Output (S nput - Ou C 1min, In put - Ou	SELV): 424 tput: 4242' iput - Grou tput: 4242' iput - Grou	2VDC 1m VDC 1min nd: 2835 VDC 1min	in, Input , Input - S /DC 1mir , Input - S	- Ground: SELV: 424 1. SELV: 424	2835VD0 2VDC 1m	C 1min. iin, Outpu	it - SELV:	850VDC	1min,	
1.3 Insulation resistance						· · · ·	Ground 50									
						-	t, Annex H 1		CC Part 1		\ \					
2.Conducted emmision																
3.Radiated emission							t, Annex H 1	able H.3 a	and H4, FC	CPart 15-A	A, VCCI-A					
4. EMC compliance	EMC(*18)		IEC/EN612	204-3 Indi	ustrial env	rironmen	t									

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

- Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.
  NOTES:
  \* 1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
  \* 2: Minimum current is guaranteed to maximum 0.2% of rated output current.
  \* 3: G5kW : Derate 5A/1°C above 40°C G3.4kW : Derate 5A/1°C above 40°C,
  \* 4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
  \* 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: 707-265Vac, 3-Phase 400/wac 3: Phase 480V models: 342–528Vac. Constant load.
  \* 8: From No-Load to Full-Load, constant input voltage. Karsung point in Remote Sense.
  \* 9: For 10V-150V models: Measured with JEITA RC-9131C (1:1) probe. For 300-600V model: Measured with 100:1 probe.
  \* 11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
  \* 12: From 90% to 10% of Rated Output Voltage.
  \* 13: Fhase 100\*K to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.
  \* 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. BW 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 30m.
  \* 19 Max. ambient temperature for using IEEE is 400A up to 40°C and 450A up to 30°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: Max. output power.

# TDK·Lambda \_\_\_\_\_

### GENESYS<sup>™</sup> GSP10kW SERIES SPECIFICATIONS

OUTPUT RATING		GSP	10-1000	20-500	30-340	40-250	50-200	60-170	80-130	100-100	150-68	200-50	300-34	400-26	500-20	600-1
1.Rated output voltage(*1)		V	10 1000	20 300	30	40 250	50 200	60	80	100 100	150 00	200 50	300	400	500 20	600
2.Rated output current (*2)		A	1000 (*3)	500	340	250	200	170	130	100	68	50	34	26	20	17
3.Rated output power		kW	10	10	10.2	10	10	10.2	10.4	10	10.2	10	10.2	10.4	10	10.2
INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Input voltage/freq. 3 phase, 3 wi	re + Ground (*4)		3-Phase, 3-Phase,	200V mod 400V mod	els: 170~2 lels: 342~4	65Vac, 47 60Vac, 47	~63Hz (Co ~63Hz (Co	vers 200/2 overs 380/	230Vac) /400/415V							
2. Maximum Input current at 100% load	3-Phase, 200V models: 3-Phase, 400V models: 3-Phase, 480V models:		35A @ 20 18.4A @ 3 18.4A @ 3	0Vac 880Vac												
3.Power Factor (Typ)	o mase, loor models.		-		, rated out	put powe	r.									
4.Efficiency (Typ) (*5) (*22)		%	89 (*21)	90	91	91	91	91	91	91	91	91	92	92	91	92
5.Inrush current (*6) 6.AC line phase imbalance		A %	Less than < 5%	100A												
CONSTANT VOLTAGE MODE		v	10	20	30	40	50	60	80	100	150	200	300	400	500	600
1.Max. Line regulation (*7)				rated outp												
2.Max. Load regulation (*8)				rated outp												
3.Ripple and noise (p-p, 20MHz) (	*9)	mV	75	75	75	75	75	75	80	90	120	200	200	400	450	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	12	15	15	20	45	60	80	80	100
5.Temperature coefficient		PPM/°C				voltage, fo										
6.Temperature stability										o. Constant		1 & temp.				
7. Warm-up drift 8.Remote sense compensation/wi	re (*10)	 V	Less than 2	2	rated outp	5 5	e+2mV ov 5	er 30 mini 5	utes follov	ving powe 5	r on. 5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	50	50	100	100	100
	Full load (*11)	mS	50	50	80	80	80	80	100	100	100	100	100	150	200	200
10.Down-prog.response time:	No load (*12)	mS	300 Time for r	600	800	900 cover with	950	1000 fits rated	1200 output fo	1900 r a load ch	2000	2500	3000 ed output	4000	4000 Jutput set	3000
11.Transient response time		mS	10~100%	, Local ser						g 100V. 2m				. current. C		. point.
12.Start up delay		Sec	Less than	7 Sec												
CONSTANT CURRENT MODE																
1.Max. Line regulation (*7)			0.05% of	rated out	out curren	t.										
2.Max. Load regulation (*13)			0.08% of	rated out	out curren	t.										
3.Ripple r.m.s. @ 10% rated voltag	e. B.W 5Hz~1MHz. (*14)	mA	1500	1200	600	300	200	150	100	70	45	45	15	15	12	10
4.Ripple r.m.s. @ 100% rated voltage.	B.W 5Hz~1MHz. (TA25°C)	mA	1200	700	300	150	100	75	50	35	23	23	7.5	7.5	8	6
5.Temperature coefficient		PPM/°C	10V~100\ 150V~60							nutes warn utes warm						
6.Temperature stability			0.01% of	rated lout	over 8hrs.	interval fo	ollowing 3	30 minute	s warm-up	o. Constant	line, load	l & temper	ature.			
7. Warm-up drift										) minutes fo ites followi						
ANALOG PROGRAMMING AND M	ONITORING (ISOLATED	FROMT		IT)							• ·					
1.Vout voltage programming					~10V. user	selectable	e. Accurac	v and line	arity: +/-0	).15% of rat	ed Vout.					
2.lout voltage programming (*15)										.4% of rate						
3.Vout resistor programming										rity: +/-0.59		Vout.				
4.lout resistor programming (*15)			0~100%,	0~5/10Ko	hm full sca	ale, user se	electable.	Accuracy	and linear	rity: +/-0.59	% of rated	lout.				
5.Output voltage monitor						le. Accura										
6.Output current monitor (*15)			0~5V or 0	0~10V, use	r selectab	le. Accura	cy: +/-0.59	%. Of rated	lout.							
SIGNALS AND CONTROLS (ISOLA	TED FROM THE OUTPUT	Г)														
1. Power supply OK #1 signal										ut Off: Off.					Current: 1	0mA.
2. CV/CC signal										m Voltage						
3. LOCAL/REMOTE Analog control							,			dry contact						+. 10. *
4. LOCAL/REMOTE Analog signal 5. ENABLE/DISABLE signal										On. Local: or short, 2					INK Currer	ic rumA
6. INTERLOCK (ILC) control										or snort, 2/ :: 0~0.6V oi				iogic.		
		i i						,de								
7. Programmed signals				- P ***			. Maximur	n voltage	25V, Maxi	mum sink	current 10	0mA (Shu		7V zener)		
7. Programmed signals			Maximu	m low lev	el input	voltage =	= 0.8V,Mir	nimum hi	igh level	input volt	age = 2.5	5V, Maxin	nted by 2		out = 5V i	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	als		Maximu edge trie	gger: tw=	=10us mir	voltage = nimum. Ti	= 0.8V,Miı r,Tf=1us N	nimum hi Aaximum	igh level		age = 2.5	5V, Maxin	nted by 2		out = 5V j	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal	als		Maximu edge tri By electri	gger: tw= ical Voltag	=10us mir  e: 0~0.6V/	voltage = nimum. Ti /2~30V or	= 0.8V,Miı r,Tf=1us N dry conta	nimum hi Aaximum	igh level	input volt	age = 2.5	5V, Maxin	nted by 2		out = 5V	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign	als		Maximu edge tri By electri	gger: tw= ical Voltag	=10us mir  e: 0~0.6V/	voltage = nimum. Ti	= 0.8V,Miı r,Tf=1us N dry conta	nimum hi Aaximum	igh level	input volt	age = 2.5	5V, Maxin	nted by 2		put = 5V j	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES	als		Maximu edge trig By electri 4~5V=OH	gger: tw= ical Voltag K, 0V (500c	=10us mir je: 0~0.6V/ phm impe	voltage = nimum. Tr /2~30V or dance)=Fa	= 0.8V,Miı r,Tf=1us N dry conta il	nimum h Maximum ct.	igh level a, Min del	input volt ay betwe	age = 2.5	5V, Maxin	nted by 2		out = 5V	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation	als		Maximu edge trij By electri 4~5V=OH	gger: tw= ical Voltag K, 0V (500c tical GSP u	=10us mir le: 0~0.6V/ phm imper units. For r	voltage = nimum. Ti /2~30V or	= 0.8V,Miı r,Tf=1us N dry conta il	nimum h Maximum ct.	igh level a, Min del	input volt ay betwe	age = 2.5	5V, Maxin	nted by 2		out = 5V	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation	als	 	Maximu edge trig By electri 4~5V=Or Two iden Consult v	gger: tw= ical Voltag (, 0V (500c tical GSP u vith Facto	=10us mir le: 0~0.6V, ohm imper units. For r ry	voltage = nimum. Tr (2~30V or dance)=Fa nore powe	= 0.8V,Miı r,Tf=1us N dry conta il er please c	nimum hi Maximum ct.	igh level , Min del th Factory	input volt lay betwe	age = 2.! en 2 puls	5V, Maxin ses 1ms.	nted by 2		out = 5V	positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control	als	    	Maximu edge trii By electri 4~5V=OF Two iden Consult v Power su Limits the	gger: tw= ical Voltag (, oV (5000 tical GSP ( vith Factor pplies can e output p	=10us mir Je: 0~0.6V/ ohm imper units. For r ry be conne	voltage = nimum. Tu /2~30V or / dance)=Fa nore powe ccted in Da proggram	= 0.8V,Min r,Tf=1us M dry contar iil er please c aisy chain amed valu	nimum hi Maximum ct. consult wi to synchro e. Progran	igh level n, Min del th Factory pnize their nming via	input volt ay betwe r. r turn-on a the comm	age = 2. en 2 puls nd turn-ol unication	5V, Maxin ses 1ms. ff.	nted by 2 num high	n level inp		positive
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain	als	   	Maximu edge trij By electri 4~5V=OF Two iden Consult v Power su Limits the Emulates	gger: tw= ical Voltag (, 0V (5000 tical GSP ( vith Factor pplies can e output p series res	=10us mir le: 0~0.6V, ohm imper units. For r ry l be conne ower to a istance. Re	voltage = nimum. Tu /2~30V or / dance)=Fa nore powe ected in Da proggram esistance r	= 0.8V, Min r, Tf=1us M dry contac iil er please c aisy chain amed valu ange: 1~1	nimum hi Maximum ct. consult wi to synchro e. Program 1000mΩ. F	igh level a, Min del th Factory onize their nming via Programm	input volt ay betwe r. r turn-on a the comm ing via the	age = 2. en 2 puls nd turn-ol unication	5V, Maxin ses 1ms. ff. ports or t lication po	nted by 2 num high he front p rrts or the	n level inp panel. front pane		
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control	als	     	Maximu edge trig By electri 4~5V=Of Two iden Consult v Power su Limits the Emulates Programicommun	gger: tw= ical Voltag (, 0V (5000 tical GSP ( vith Factor pplies can e output p series res mable Out ication po	=10us mir le: 0~0.6V, ohm imper units. For r ry be conne istance. Re tput rise a irts or the	voltage = himum. Tr (2~30V or i dance)=Fa nore powe iccted in Da proggram esistance r nd Output front pane	= 0.8V,Min r,Tf=1 us N dry conta- il er please c sisy chain med valu range: 1~1 ; fall slew r el.	nimum h Aaximum ct. consult wi to synchro e. Progra 1000mΩ. F rate. Progr	igh level , Min del th Factory ponize thein nming via Programm ramming r	input volt ay betwe r. r turn-on a the comm ing via the range: 0.00	age = 2.4 en 2 puls nd turn-of unication commun 01~999.99	5V, Maxin ses 1ms. ff. ports or t ication po 9 V/mSec.	nted by 2 num higł he front p orts or the or A/mSe	h level inp banel. front pane c. Program	el.	the
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7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/485, Optional IEEE (*19)(*	(USB, LAN, 20) Interfaces)	     V	Maximu edge trig By electri 4~5V=Of Two iden Consult v Power su Limits the Emulates Program commun Profiles o <b>10</b> 0.05% of	gger: tw= ical Voltag (, 0V (500c tical GSP ( vith Facto pplies can e output p series res mable Out ication po of up to 100 20	=10 us <sup>2</sup> mir e: 0~0.6V/ shm imper- units. For rr ry be conner ower to a istance. Re tput rise ar tput rise ar to set pseconer 0 steps can 30 put voltag	voltage = nimum. Tri (2~30V or r. Tri dance)=Fa more powe exted in Da proggram esistance r nd Output front pane h be storee <b>40</b> e	= 0.8V, Mir, Tf=1us N dry conta- iil er please c sisy chain med valu ange: 1~1 f all slew r el. d in 4 men	nimum h Aaximum ct. to synchro e. Program 1000mΩ. F rate. Progr nory cells.	igh level a, Min del th Factory ponize their nming via Programm ramming r Activatio	input volt ay betwe r. r turn-on a the comm ing via the range: 0.00 n by comm	age = 2.3 en 2 puls nd turn-oi unication commun 01~999.99 nand via th	5V, Maxin ses 1ms. ff. ports or t ication po 9 V/mSec. he commu	nted by 2 num high he front p prts or the or A/mSe nication p	h level inp banel. front pane c. Program ports or by	el. ming via	the panel.
7. Programmed signals 8. TRIGGER IN / TRIGGER OUT sign 9. DAISY_IN/SO control signal 10. DAISY_OUT/PS_OK #2 signal FUNCTIONS AND FEATURES 1. Parallel operation 2. Series operation 3. Daisy chain 4. Constant power control 5. Output resistance control 5. Output resistance control 6. Slew rate control 7. Arbitrary waveforms PROGRAMMING AND READBACK RS232/48S, Optional IEEE (*19)(*	(USB, LAN, 20) Interfaces)	      V	Maximu edge trig By electri 4~5V=Of Two iden Consult v Power su Limits the Emulates Program commun Profiles o 10 0.05% of ro 0.3% of ro	gger: tw= ical Voltag (, 0V (500c tical GSP to vith Facto pplies can e output p series res mable Out ication po if up to 100 20 rated outp	=10 us <sup>2</sup> mir e: 0~0.6V/ shm imper- units. For rr ry be conner ower to a istance. Re tput rise ar tput rise ar to steps car <b>30</b> but voltag ut current	voltage = nimum. Tr (2~30V or ir dance)=Fa nore powe acted in Da proggram esistance r nd Output front pane n be stored 40 e	= 0.8V, Mir, Tf=1us N dry conta- iil er please c sisy chain med valu ange: 1~1 f all slew r el. d in 4 men	nimum h Aaximum ct. to synchro e. Program 1000mΩ. F rate. Progr nory cells.	igh level a, Min del th Factory ponize their nming via Programm ramming r Activatio	input volt ay betwe r. r turn-on a the comm ing via the range: 0.00 n by comm	age = 2.3 en 2 puls nd turn-oi unication commun 01~999.99 nand via th	5V, Maxin ses 1ms. ff. ports or t ication po 9 V/mSec. he commu	nted by 2 num high he front p prts or the or A/mSe nication p	h level inp banel. front pane c. Program ports or by	el. ming via	the panel.
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### GENESYS<sup>™</sup> GSP15kW SERIES SPECIFICATIONS

Tighed ang dunger!         V	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	300-51	600-25.5
Speed campa norms (?)       I.e.       <	1.Rated output voltage(*1)												-		-		
NUME Classifie         N        <	2.Rated output current (*2)																
<ul> <li>Haven Allen Verselen Select Sel</li></ul>	3.Rated output power		kW	15	15	15.3	15	15	15.3	15.6	15	15.3	15	15.3	15.6	15.3	15.3
Impact billing	INPUT CHARACTERISTICS		V	10	20	30	40	50	60	80	100	150	200	300	400	500	600
2 Markan Markan Markan         2 Stake 2000/c         3 Stake 2000/c <t< td=""><td>1.Input voltage/freq. 3 phase, 3 wi</td><td>ire + Ground (*4)</td><td></td><td>3-Phase, 4</td><td>00V mode</td><td>els: 342~46</td><td>50Vac, 47~</td><td>~63Hz (Co</td><td>vers 380/</td><td>/400/415Va</td><td></td><td>0\/ac</td><td></td><td>·</td><td></td><td></td><td></td></t<>	1.Input voltage/freq. 3 phase, 3 wi	ire + Ground (*4)		3-Phase, 4	00V mode	els: 342~46	50Vac, 47~	~63Hz (Co	vers 380/	/400/415Va		0\/ac		·			
12 Amene Gright         12 Amene Gright (1)	2. Maximum Input current at 100% load	3-Phase, 400V models:		52.5A @ 20 27.6A @ 38	00Vac 30Vac	215: 342~52	28VaC, 47~	~03HZ (CO	vers 380/4	100/415/44	10/460/48	UVAC)					
Affinison Quarter (D)       N       B       P(7)1       0<		3-Phase, 480V models:									-				_		_
Simultan Conference (*)         A         Less then 150.         Less then 150. <thless 15<="" td="" then=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>91</td><td>91</td><td>91</td><td>91</td><td>91</td><td>92</td><td>92</td><td>91</td><td>92</td></thless>									91	91	91	91	91	92	92	91	92
Close Transmission         V         100         20         20         40         50         60         100         100         100         600 <t< td=""><td>5.Inrush current (*6)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>52</td><td>72</td><td>21</td><td>72</td></t<>	5.Inrush current (*6)													52	72	21	72
1 Max. Line regulation (?)	6.AC line phase imbalance		%	< 5%													
Data	CONSTANT VOLTAGE MODE		٧	10	20	30	40	50	60	80	100	150	200	300	400	500	600
Bapper and once ps_ 200H/2 (**)         mv         75	1.Max. Line regulation (*7)			0.01% of ra	ated outp	ut voltage											
Aligner Law         Male         No         No        No	2.Max. Load regulation (*8)			0.01% of ra	ated outp	ut voltage	+5mV										
Stemperature coefficient i intered autoper values of balance values que la values de la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values values que la constant line. Load & tempe - values que la constant		(*9)				-						-					
<form>          Differ         <thdiffer< th=""> <thdiffer< th=""> <thdiffer< <="" td=""><td>4.Ripple r.m.s. 5Hz~1MHz (*9)</td><td></td><td></td><td></td><td></td><td>1</td><td>L</td><td></td><td></td><td></td><td></td><td>20</td><td>45</td><td>60</td><td>80</td><td>80</td><td>100</td></thdiffer<></thdiffer<></thdiffer<></form>	4.Ripple r.m.s. 5Hz~1MHz (*9)					1	L					20	45	60	80	80	100
2 Warn up drift          Less than 0.00% of rated output vertex         Vertex        Vertex         Vertex												Aller Lee					
Bill mode serve companiation // in 1         V         2         2         5        5         5         5	· · · · ·												a & temp.				
Bup programming Programing Programming Programming Programming Programming Prog		ire (*10)			1			1	1			1	5	5	5	5	5
Part Biolog Persponse time       Full Ised (*1)       mS       59       59       80       80       80       90       100	9.Up-prog. Response time (*11)									-							-
Notice of the second		Full load (*11)				-				-					1		-
12. Start updaly       See       less than 7 sec         0.00557047 (UBREN MODE       V       10       20       10       10       100       1	10.00wn-prog.response time:		mS														
12. Start updaly       See       less than 7 sec         0.00557047 (UBREN MODE       V       10       20       10       10       100       1	11.Transient response time		mS	Time for o	utput vol	tage to rec	over with	in 0.5% of	fits rated	output for	a load ch	ange 10~	90% of rat	ed outpu	t current. (	Output se	et-point:
CONSTANT CURRENT MODE         V         10         20         30         40         50         60         80         100         150         200         300         400         500         600           Max. Lor regulation (7)						se. Less th	an 1mS, fo	or models	up to and	including	100V.2m	is, for mo	uels above	e 100V.			
Max. Long ergulation (*7)				1	1												1
2Max. Load "guilation (*13)	CONSTANT CURRENT MODE							50	60	80	100	150	200	300	400	500	600
3 Rapie race, * 10% rated voltage, BW SHz-MHK, 1014 pr.M.         ADD         1.00         60         30         20         180         100         70         45         45         15         11         120         100           Stepperaze, * 10% rated voltage, BW SHz-MHK, 10/ASC, MML, 10/ASC, MML	-																
Atting Derivated voltage & Wishes Tublic (TA 25°C)         nA         1200         700         300         150         130         90         60         35         23         23         7.5         7.5         8         6           Stemperature coefficient         PPPWC         Tom Head output current. (holiwing 30 minutes warm-up. Constant line. Ind 8 temperature.         5         5         8         6           Atom up drift         001% of rated output current (well output current ovel 30 minutes warm-up. Constant line. Ind 8 temperature.         5         5         5         5         6         6         001% of rated output current ovel 30 minutes following 30 minutes warm-up. Constant line. Ind 8 temperature.         5         5         5         5         5         5         6         7         7         8         6         6         001% of rated output current ovel 30 minutes following 30 minutes warm-up. Constant line. Ind 8         5         5         5         5         7         5         0         6         001% of rated output current ovel 30 minutes following 30 minutes warm-up. Constant line. Ind 8         5         5         5         5         5         5         7         5         6         7         5         7         5         7         5         7         5         7         5		- D M CII- 1MII- (*14)				1		250	100	100	70	45	45	15	10	12	10
Stemperature coefficient         PPWC         100*-100V         100*-100V         100*-100V         100-100V         100-10		,													-		
Statistic Production (Series and Series and		. D.W 5112~110112. (1A 25 C)											25	7.5	7.5	0	0
6.Temperature stability	5.Temperature coefficient		PPM/°C														
1. Marine Quiff         To         ToSV-600V: Less than +/-0.15% of rated output current over 30 minutes following power on.           ANALOG PROGRAMMING AND MONITORING (ISOLATED PROM THE CUTPUT)	6.Temperature stability												d & tempe	rature.			
In Sub-court Less frant +/LUSs to frate output current (vers) in uniques following power off.           NALGO PROGRAMMING AND MONTORING (ISOLATED FROM THE CUTPUT)           1/2014 voltage programming	7. Warm-up drift																
11yout voltage programming				150V~600	V: Less tha	an +/-0.159	% of rated	output cu	urrent ove	r 30 minut	tes follow	ing powe	r on.		_		
2.100 trollage programming (*15)        0-100%, 0-57 00 for Arg 20 yr 0-100, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         3.30 ut resistor programming (*15)        0-100%, 0-57 00 form full scale, user selectable. Accuracy and linearity: +/-0.5% of rated lout.         5.00 utput vortage monitor (*12)        0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated lout.         5.00 utput vortage monitor (*12)        0-5V or 0-10V, user selectable. Accuracy: +/-0.5% of rated lout.         5.00 utput vortage monitor (*12)        Power supply output monitor. Open collector. Output Off: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         2. CVICC signal        Power supply output monitor. Open collector. CUmode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         3. LOCAL/REMOTE Analog control        Enable/Disable PS output by electrical signal or dry contact. Remote: 006V or short. Local: 2-30V or open.         5. INFRILOCX (ILC) control        Enable/Disable PS output by electrical signal or dry contact.       Secole V-OV or open.         7. Programmale ginals	ANALOG PROGRAMMING AND M	MONITORING (ISOLATED	FROM T	HE OUTPU	T)												
32000 registrop rogramming (15)	1.Vout voltage programming																
4.but resistor programming (*15)          0-100%, 0-570 kohm full scale, user selectable. Accuracy: +1-0.5% of rated lout.           5.Output contrate monitor (*15) (*23)          0-5V or 0-10V, user selectable. Accuracy: +1-0.5% of rated lout.           SIGNALS AND CONTROLS (SOLATED FROMTHE OUTPUT)          Power supply OK #1 signal            1. Power supply OK #1 signal          Power supply OK #1 signal or to CVCC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.           3. LOCAL/REMOTE Analog control          Enable/Disable analog programming control monitor signal. Open collector: Activation signal. Open Collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.           5. LOKAL/REMOTE Analog control          Enable/Disable PS output by electrical signal or dry contact. Remote: 00.6V or short. Local: 2-30V or open.           6. INTERLOCK (ILC) control		i)															
SOUTUP voltage monitor (23)		,															
6.0 Urput current monitor (*15) (*23)        05V or 010V, user selectable. Accuracy: +/-0.5%. of rated lout.         SIGNALS AND CONTROLS (ISOLATED FROM THE OUTPUT)        Power supply output monitor. Open collector. Output Off. Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         1. Dowers supply Okt 31 signal        CV/CC Monitor. Open collector. CC mode: On CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         2. CV/CC Monitor. Open collector. CC mode: On CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         3. LOCAL/REMOTE Analog control        Enable/Disable ranalog programming control monitor signal. Open collector. CM or short. 2-30V or open.         4. LOCAL/REMOTE Analog signal        Enable/Disable PS output by electrical signal or dry contact. 0-0.6V or short. 2-30V or open. User selectable logic.         6. INTRILOCE (LIC) control        Enable/Disable PS output by electrical signal or dry contact. 0-0.6V or short. 2-30V or open. User selectable logic.         7. Programmed signal        Two open drain programmable signals. Maximum wortage 25V. Maximum sink current 100mA (Shunted by 27V zene)         8. TRIEGGEN IN TRICGER OUT signal        Two open drain programmed signal concerted in Dais ychain to synchronize their turn-on and turn-off.         9. DAISY_INSO control signal        Two identical GSP units. For more power please consult with Factory.         2. Series openation        Two identical G		)									ıty: +/-0.5	% or rated	i iout.				
SiGALS AND CONTROLS (ISOLATED FROM THE OUTPUT)  1. Power supply OK #1 signal  2. CV/CC signal  4. CV/CC Monitor. Open collector. Output Off. On. Output Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 2. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 2. CV/CC Monitor. Open collector. CC mode: On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA. 3. LOCAL/REMOTE Analog signal  4. CV/LCX Maximum Sink Current: 10mA. 4. LOCAL/REMOTE Analog signal  4. CV/LCX Monitor on the programming control by electrical signal or dry contact. Remote: 0-0.6V or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal  4. CV/LCX Monitor on the programming control by electrical signal or dry contact. De. 6V or short. Local: 2-30V or open. 4. LOCAL/REMOTE Analog signal  4. CV/LCX Monitor on the programmale signals. Maximum voltage: 25V, Maximum Sink Current: 10mA. 5. CVRC Signal  4. CV/LCX Monitor Signal (Development)  4. STRIGGER IN/ TRIGGER OUT signals  4. TRIGGER IN/ TRIGGER OUT signals  4. TRIGGER IN/ TRIGGER OUT signals  4. STRIGGER IN/ TRIGGER OUT signal  4. CVX (Southor bear on the programma signal or dry contact. 4. SV Signal  4. CVX (Southor bignal  4. CVX (Southor by dry Cratact  4. SV Signal  4. SV Signal  4. SV Signal  4. SV Signal  5. OLSY INVS CONTO Signal  5. OLSY INVS CONTO Signal  5. OLSY INVS CONTO Signal  5. CVX (Southor by dry Cratact  5. Supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.  5. Constant prover control  5. CVX (Southor Signal Bignal  5. CVX (Southor Signal Bignal  5. Signal  5. OLSY INVS CONTO SIGNA  5. Supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.  5. CVX (Southor Signal Bignal  5. CVX (Southor Bignal  5. CVX (So		23)															
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        CW/CC Monitor. Open collector. CC mode On. CV mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         3. LOCAL/REMOTE Analog control        Enable/Disable PS output by electrical signal of ry contact. Remote: On. Local: 2-30V or open.         4. LOCAL/REMOTE Analog signal        analog programming control on ritor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         5. ENABLE/Disable PS output by electrical signal of ry contact. Remote: On. Local: 2-30V or open.					,			,									
2. CV/CC Monitor. Open collector. CC mode: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA.         3. LOCAL/REMOTE Analog control			-	Powercus	nly outer	it monitor	Open col	llector O	itnut On-	On Output	t Off. Off	Maximum	n Voltago	301/ Mar	imum Cink	Current	10m4
3.1 LOCAL/REMOTE Analog control        Enable/Disable analog programming control monitor signal or dry contact. Remote: 00.6V or short. Local: 230V or open.         4.1 LOCAL/REMOTE Analog signal        Enable/Disable or source 100.6V or short. 230V or open. User 20V, Maximum Notage: 30V, Maximum Sink Current: 10mA.         5. ENABLE/DISABLE Signal        Enable/Disable PS output by electrical signal or dry contact. Remote: 00.6V or short. Local: 230V or open.          7. Programmed signals        Two open drain programmable signals. Maximum voltage 2.5V, Maximum sik current 100m (Shunted by 27V zener)         8. TRIGGER IN / TRIGGER OUT signals        Two open drain programmable signals. Maximum Notage 2.5V, Maximum high level input voltage - 2.5V, Maximum high level input voltage - 2.5V, Maximum high level input voltage - 2.5V, Maximum high level input so trost - 5V or open.          9. DASY. JINS: Control signal        Haximum low level input voltage - 0.3V, Minimum high level input voltage - 2.5V, Maximum high level input = 5V positive edge trigger: two low sink Local: 2-30V or open.          10. DAISY_OUT/PS_OK #2 signal        4SV=OK, V (500ohm impedance)=Fail          FUNCTIONS AND FEATURES         E																Currenti	ionia.
4. LOCAL/REMOTE Analog signal        analog programming control monitor signal. Open collector. Remote: On. Local: Off. Maximum Voltage: 30V, Maximum Sink Current: 10mA, 5. NABLE/DISABLE Signal        Enable/Disable PS output by electrical signal or dry contact. 00.6V or short, 2-30V or open. User selectable logic.          6. INTERLOCK (LIC) control        Enable/Disable PS output by electrical signal or dry contact. 00.6V or short. Local: 2-30V or open. User selectable logic.          7. Programmed signals        Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)          8. TRIGGER IN / TRIGGER OUT signals        Maximum low level input voltage = 0.60/2-30V or dry contact.	3. LOCAL/REMOTE Analog control	1														or open.	
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. Programmade signals Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener) 8. TRIGGER IN / TRIGGER OUT signals By electrical voltage: 0-0.6V/2-30V or dry contact. 9. DAISY_IN/SO control signal By electrical voltage: 0-0.6V/2-30V or dry contact. 1. DAISY_OUT/PS_OK #2 signal 4-SY=OK, OV (500ohm impedance)=Fail FUNCTIONS AND FEATURES 1. Parallel operation Two identical GSP units. For more power please consult with Factory. 2. Series operation Consult with Factory 3. Daisy chain Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off. 4. Constant power control Emulates series resistance. Resistance range: 1-1000mΩ. Programming via the communication ports or the front panel. 5. Output resistance control Emulates series resistance. Resistance range: 1-1000mΩ. Programming via the communication ports or the front panel. 5. Output resistance control Frofiles of up to 100 steps can be stored in the more cells. Activation by commandia via the communication ports or the front panel. 7. Arbitrary waveforms Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel. 7. Arbitrary waveforms 0.05% of rated output voltage 1. Joutpy for dated output voltage 1. Output programming accuracy (*16) 0.05% of rated output voltage 1. Output contrad output voltage 1. Output programming resolution 0.02% of rated output voltage 4. Joutprogramming resolution 0.05% of rated output voltage 4. Joutprogramming resolution 0.05% of rated output voltage 4. Jouts for dated output voltage 4. Joutprogramming resolution	4. LOCAL/REMOTE Analog signal																
7. Programmed signals        Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)         8. TRIGGER IN / TRIGGER OUT signals        Two open drain programmable signals. Maximum voltage 25V, Maximum sink current 100mA (Shunted by 27V zener)         9. DAISY_IN/SO control signal        By electrical Voltage: 0-0.6V/2-30V or dry contact.         10. DAISY_OUT/PS_OK #2 signal        By electrical Voltage: 0-0.6V/2-30V or dry contact.         12. DAISY_OUT/PS_OK #2 signal        4SV=OK, 0V (S00ohm impedance)=Fail         FUNCTONS AND FEATURES         1. Parallel operation          2. Series operation        Consult with Factory         3. Daisy chain          2. Soutput resistance control        Limits the output power to a programmed value. Programming via the communication ports or the front panel.         5. Output resistance control        Emulates series resistance. Resistance range: 11000mΩ. Programming range: 0.0001999.99 V/mSec. or A/mSec. Programming via the communication ports or by the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be store in 4 memory cells. Activation by command via the communication ports or by the front panel.         7. Arbitrary waveforms        0.05% of rated output voltage	5. ENABLE/DISABLE Signal					. ,											
RIGGER IV / TRIGGER OUT signals	6. INTERLOCK (ILC) control																
a. Indexen i/v Trilicent of Linguistics       ************************************	7. Programmed signals															tation 1	
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 (5000hm impedance)=Fail         FUNCTIONS AND FEATURES         1. Parallel operation        Two identical GSP units. For more power please consult with Factory.         2. Series operation        Consult with Factory -       Consult with Factory.         3. Daisy chain        Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.         4. Constant power control        Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.         5. Output resistance control        Programmable Output fail slew rate. Programming rate. Output and the communication ports or the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         PROGRAMMING AND READBACK (USB, LAN, RS322/485, Optional IEEE (*19)(*20) Interfaces)       V       10       20       30       40       50       60       80       100       150       200       300       400       500       600         1.Vout programming accuracy (*16)        0.05% of rated output voltage	8. TRIGGER IN / TRIGGER OUT sign	nals		tw=10us n	iow level	Input volt Tr,Tf=1us M	age = 0.8\ Naximum	v, Min dela	n nigh lev y betweei	/ei input vo n 2 pulses	oitage = 2 1ms.	2.5v, Maxii	mum high	ievel inp	ut = 5V po:	ative edg	e trigger:
10. DAISY_OUT/PS_OK #2 signal        4-SV=OK, 0V (500chm impedance)=Fail         FUNCTIONS AND FEATURES         1. Parallel operation        Two identical GSP units. For more power please consult with Factory.         2. Series operation        Consult with Factory          3. Daisy chain        Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.         4. Constant power control        Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.         5. Output resistance control        Emulates series resistance. Resistance range: 1~1000mΩ. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional ILEE (*19)(*20) Interfaces)        0.05% of rated output voltage         J.lout programming accuracy (*16)        0.05% of rated output voltage          Jout programming resolution        0.02% of rated output voltage          Jout programming resolution        0.05% of rated output voltage	9. DAISY_IN/SO control signal														_		-
1. Parallel operation        Two identical GSP units. For more power please consult with Factory.         2. Series operation        Consult with Factory         3. Daisy chain        Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.         4. Constant power control        Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.         5. Output resistance control        Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         7. Arbitrary waveforms        0.05% of rated output voltage         8. South programming accuracy (*16)        0.05% of rated output voltage         1. Vout programming resolution        0.002% of rated output voltage         4. Long rade dack accuracy        0.05% of rated output voltage         5. Output readback accuracy        0.05% of rated output voltage         6. Slow rade dack accuracy        0.02% of rated output voltage         7. Arbitrary waveforms        0.05% of rated output voltage         1. Vout programming accur	10. DAISY_OUT/PS_OK #2 signal																
1. Parallel operation        Two identical GSP units. For more power please consult with Factory.         2. Series operation        Consult with Factory         3. Daisy chain        Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.         4. Constant power control        Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.         5. Output resistance control        Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         7. Arbitrary waveforms        0.05% of rated output voltage         8. South programming accuracy (*16)        0.05% of rated output voltage         1. Vout programming resolution        0.002% of rated output voltage         4. Long rade dack accuracy        0.05% of rated output voltage         5. Output readback accuracy        0.05% of rated output voltage         6. Slow rade dack accuracy        0.02% of rated output voltage         7. Arbitrary waveforms        0.05% of rated output voltage         1. Vout programming accur	FUNCTIONS AND FEATURES																
2. Series operation        Consult with Factory         3. Daisy chain        Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.         4. Constant power control        Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.         5. Output resistance control        Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel.         6. Slew rate control        Programmable Output rise and Output file law rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or by the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)       V       10       20       30       40       50       60       80       100       150       200       300       400       500       600         1/Sout programming resolution        0.05% of rated output voltage                      <				Two identi	ical GSP u	nits. For m	orepowe	er please o	onsult wit	th Factory							
3. Daisy chain        Power supplies can be connected in Daisy chain to synchronize their turn-on and turn-off.         4. Constant power control        Limits the output power to a proggrammed value. Programming via the communication ports or the front panel.         5. Output resistance control        Emulates series resistance: Resistance range: 1-1000mΩ. Programming via the communication ports or the front panel.         6. Slew rate control        Programmable Output rise and Output fial lew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or by the front panel.         7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)       V       10       20       30       40       50       60       80       100       150       200       300       400       500       600         NOUt programming resolution        0.05% of rated output voltage	2. Series operation							picase e									
5. Output resistance control Emulates series resistance. Resistance range: 1~1000mΩ. Programming via the communication ports or the front panel. 6. Slew rate control	3. Daisy chain			Power sup	plies can	be connec	ted in Da	isy chain t	o synchro	onize their	turn-on a	nd turn-o	off.				
6. Slew rate control C. Programmable Output rise and Output fail slew rate. Programming range: 0.0001~999.99 V/mSec. or A/mSec. Programming via the communication ports or the front panel. 7. Arbitrary waveforms C. Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or the front panel. PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces) V 10 20 30 40 50 60 80 100 150 200 300 400 500 600 RS232/485, Optional IEEE (*19)(*20) Interfaces) 1.Vout programming accuracy (*15) C. 0.05% of rated output voltage C. 0.002% of rated outp	4. Constant power control			Limits the	output po	ower to a p	oroggram	med value	e. Progran	nming via	the comn	nunication	n ports or				
6. Slew rate control	5. Output resistance control																
7. Arbitrary waveforms        Profiles of up to 100 steps can be stored in 4 memory cells. Activation by command via the communication ports or by the front panel.         PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)       V       10       20       30       40       50       60       80       100       150       200       300       400       500       600         1.Vout programming accuracy (*16)        0.05% of rated output voltage        0.3% of rated output current        0.002% of rated output voltage         0.002% of rated output voltage          0.002% of rated output voltage	6. Slew rate control								ate. Progr	amming ra	ange: 0.00	01~999.9	9 V/mSec.	or A/mSe	ec. Progran	nming via	a the
PROGRAMMING AND READBACK (USB, LAN, RS232/485, Optional IEEE (*19)(*20) Interfaces)         V         10         20         30         40         50         60         80         100         150         200         300         400         500         600           1.Vout programming accuracy (*16)          0.05% of rated output voltage          0.3% of rated output current	7. Arbitrary waveforms								nory cells	Activation	h by comm	nand via t	he comm	unication	ports or h	the from	t panel.
NS222/485, Optional IEEC (* 19)(*20) interfaces)	PROGRAMMING AND READBACK				l.				I			1			1		1
2.lout programming accuracy (*15)        0.3% of rated output current         3.Yout programming resolution        0.002% of rated output voltage         4.lout programming resolution        0.002% of rated output voltage         5.Yout readback accuracy        0.05% of rated output voltage         6.lout readback accuracy (*15)        0.2% of rated output voltage         7.Yout readback resolution (of rated output voltage)        0.02% of rated output current													200			550	
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          0.05% of rated output voltage          S.Vout readback accuracy (*15)        0.2% of rated output current         7.Vout readback resolution (of rated output voltage)        0.004%       0.004%       0.002%       0.011%       0.005%       0.004%       0.003%       0.002%						2											
4.lout programming resolution         0.002% of rated output current           5.Vout readback accuracy          0.2% of rated output voltage           6.lout readback accuracy (*15)          0.2% of rated output current           7.Vout readback resolution (of rated output voltage)         %         0.01%         0.004%         0.003%         0.003%         0.01%         0.007%         0.005%         0.004%         0.002%		<u>ر</u> ر					P										
5.Vout readback accuracy          0.05% of rated output voltage           6.lout readback accuracy (*15)          0.2% of rated output current           7.Vout readback resolution (of rated output voltage)         %         0.011%         0.006%         0.004%         0.003%         0.002%         0.011%         0.007%         0.005%         0.004%         0.002%																	
6.lout readback accuracy (*15)          0.2% of rated output current           7.Vout readback resolution (of rated output voltage)         %         0.011%         0.004%         0.003%         0.003%         0.002%         0.011%         0.007%         0.005%         0.004%         0.002%				0.002% 01													
	4.lout programming resolution 5.Vout readback accuracy																
8.lout readback resolution (of rated output current))   %   0.012%   0.003%   0.003%   0.004%   0.004%   0.005%   0.006%   0.008%   0.012%   0.002%   0.003%   0.003%   0.003%   0.003%   0.003%   0.003%   0.005%   0.004%   0.005%   0.005%   0.005%   0.005%   0.002%   0.002%   0.003%   0.003%   0.005%   0.004%   0.005%   0.005%   0.005%   0.002%   0.002%   0.003%   0.003%   0.005%   0.004%   0.005%   0.005%   0.005%   0.002%   0.002%   0.003%   0.003%   0.005%   0.004%   0.005%   0.005%   0.005%   0.002%   0.002%   0.003%   0.003%   0.003%   0.005\%   0.005\%	4.lout programming resolution			0.05% of r	ated outp	out voltage											
	4.lout programming resolution 5.Vout readback accuracy 6.lout readback accuracy (*15) 7.Vout readback resolution (of rat		  %	0.05% of r 0.2% of rat 0.011%	rated outp ted outpu 0.006%	out voltage t current 0.004%	0.003%										-

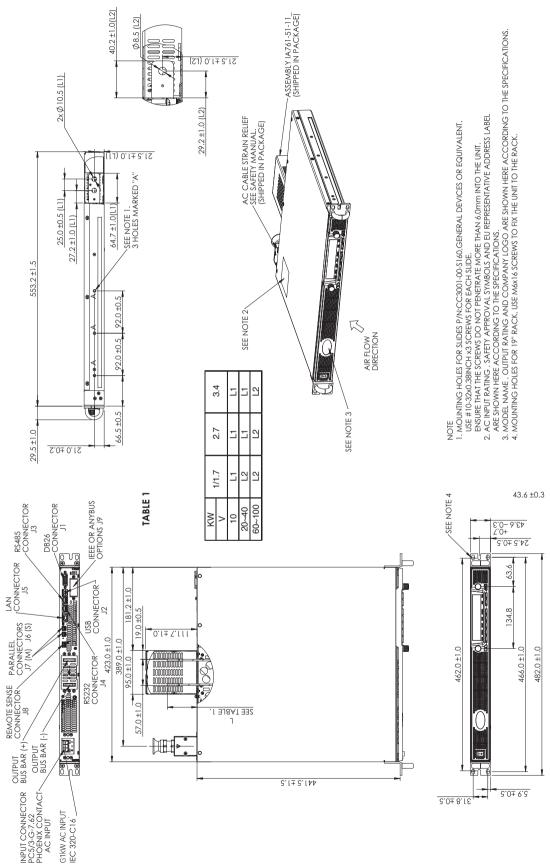
#### GENESYS<sup>™</sup> GSP10kW/15kW SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS		V	10 20 30	40 50	60	80	100	150	200	300	400	500	600
1.Foldback protection			tput shut-down when power s er presetable. Reset by AC inpu										
2.Over-voltage protection (OVF	)		tput shut-down. Reset by AC i										
<ol><li>Over -voltage programming r</li></ol>		V		~44.1 5~55.125	5~66.15	5~88.2	5~110.2	5 5~165.37	7 5~220.5	5~330.75	5~441	5~551.25	5~661.5
<ol> <li>Over-voltage programming a</li> </ol>			1% of rated output voltage										
5.Output under voltage limit (U			vents from adjusting Vout bel			n analog	program	ming. Pres	et by fron	panel or	communio	ation por	t.
6.Over temperature protection			its down the output. Auto rec		rt mode.								
7. Output under voltage limit (L	JVL)		vents adjustment of Vout belo	ow limit.									
8. Output under voltage protec	tion (UVP)		vents adjustment of Vout belo de, by Power Switch, by OUTP						dition. Re	set by AC i	nput recy	cle in auto	start
FRONT PANEL										-		-	
1.Control functions			Itiple options with 2 Encoders	s									
			it/lout/Power Limit manual ad										
			P/UVL/UVP manual adjust	•									
			tection Functions - OVP, UVL,	UVP, Foldback, O	CL, ENA,	LC							
			mmunication Functions - Sele	ction of LAN, IEEE	,RS232,R	S485,USI	3 or Optio	nal comm	unication	nterface.			
			tput ON/OFF. Front Panel Lock	k.									
			mmunication Functions - Sele	ction of Baud Rat	te, Addre	ss, IP and	commun	ication lar	nguage.				
			alog Control Functions - Selec					, 5K/10K p	rogrammi	ng			
			alog Monitor Functions - Selec				g 5V/10V.						
2.Display			it: 4 digits, accuracy: 0.05% of	f rated output vol	tage +/-1	count.							
			t: 4 digits, accuracy: 0.2% of ra										
3.Front Panel Buttons Indicatio	ns		TPUT ON, ALARM, PREVIEW, F	INE, COMMUNIC	ATION, PF	ROTECTIO	DN,CONFI	GURATION	I, SYSTEM,	SEQUENC	ER.		
4. Front Panel Display Indicatio	ns		tage, Current, Power, CV, CC, C mmunication), RS/USB/LAN/IE	CP, External Volta EEE communicati	ge, Exter on, Trigg	nal Curre er, Load/	ent, Addre Store Cell	ss, LFP, Au	tostart, Sa	fetstart, Fo	oldback V/	'l, Remote	
ENVIRONMENTAL CONDITION	S												
1.Operating temperature	-		50°C, 100% load.										
2.Storage temperature			~85°C										
÷ ,		_											
3.Operating humidity		%	-90% RH (no condensation).										
4.Storage humidity		%	-95% RH (no condensation).										
5.Altitude (*17)			erating: 10000ft (3000m), outp	put current derati	ing 2%/10	00m or Ta	a derating	1°C/100m	above 200	0m. Non o	perating:	40000ft (1	2000m).
MECHANICAL													
1.Cooling			ced air cooling by internal fan	ns. Air flow direct	ion: from	Front pa	nel to pov	ver supply	rear				
2.Weight	GSP 10kW	kg	s than 15.5kg.										
3.Dimensions (WxHxD)	GSP 10kW	mm	423, H: 88, D: 441.5 (Without b 423, H: 88, D: 640 (Including b				relief) (Re	efer to Outl	ine drawin	g).			
2.Weight	GSP 15kW	kg	s than 23.5kg.							-			
3.Dimensions (WxHxD)	GSP 15kW	mm	423, H: 132.5, D: 441.5 (Witho 423, H: 132.5, D: 640 (Includii				strain relie	ef) (Refer t	o Outline o	drawing).			
4.Vibration			-810G, method 514.6, Proced	ure I, test conditi	on Anne>	C - 2.1.3	.1						
5.Shock			s than 20G, half sine, 11mSec.	Unit is unpacked	l.								
SAFETY/EMC													
1.Applicable standards:	Safety		51010-1, CSA22.2 No.L61010-1,	.IECL61010-1 ENI	L61010-1								
1.1. Interface classification			it ≤40V Models: Output, J1, J2, ≤ Vout≤ 600V Models: Outpu	,J3,J4,J5,J6,J7,J8 (	(sense) ar	nd ,J9 (co					uns) are SE	i v	
			•										
1.2 Withstand voltage			ut ≤40V Models: Input - Out  /≤Vout≤100V Models: Input tput - Ground: 1500VDC 1m	- Output: 4242\	/DC 1mi	n, Input	SELV: 4			out - SEL	/: 850VD	C 1min,	
1.2 Withstand Voltage			Cout≤600V Models: Input Cout≤600V Models: Input Cout≤600V Models: Input	t - Output: 4242\	/DC 1mi	n, Input	- SELV: 4	242VDC	1min, Out	put - SEL	/: 1275VI	DC 1min,	
1.3 Insulation resistance	1		210kW/15kW: 60 Mohm at 25%										
2.Conducted emmision			/EN61204-3 Industrial environ					~I-Δ					
									^				
3.Radiated emission	5145(740)		/EN61204-3 Industrial environ		aule H.3	aii0 H4, I	rcc Part I	5-A, VCCI-	м.				
4. EMC compliance	EMC(*18)		/EN61204-3 Industrial environ	nment									

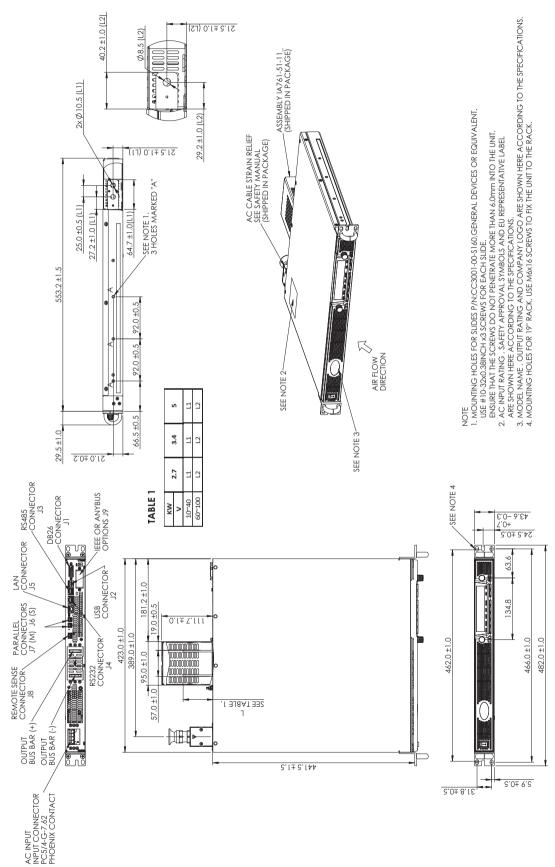
Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.

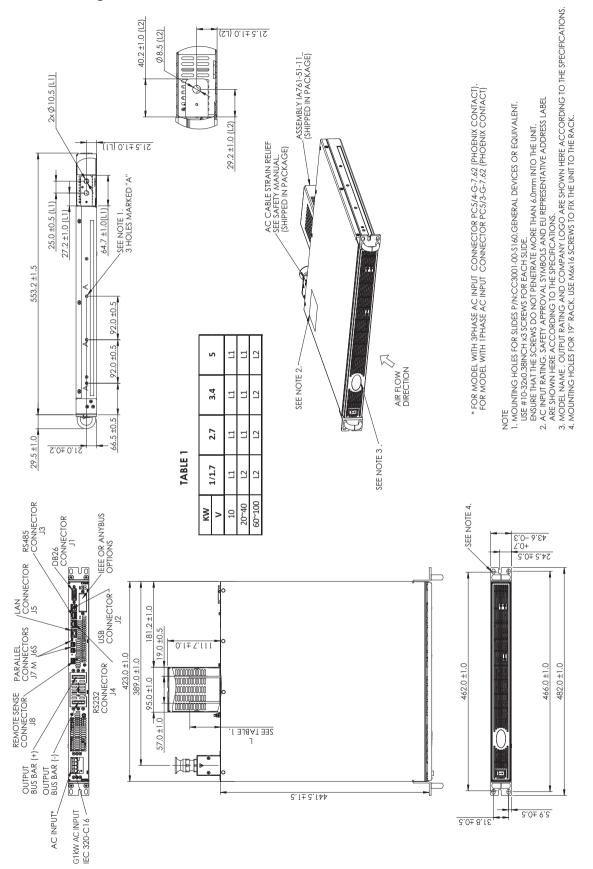
Unless otherwise noted, specifications are warranted over the ambient temperature range of 0° to 50° C.
"NOTES:
"1. Minimum current is guaranteed to maximum 0.1% of rated output voltage.
"2: Minimum current is guaranteed to maximum 0.2% of rated output current.
"3: GSP 10KW: Derate 10A/1°C above 40°C. GSP 15KW: Derate 15A/1°C above 40°C.
"4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase
"5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
"6: Not including EMI filter inrush current, less than 0.2mSec.
"7: 3-Phase 200V models: 3-Phase 400/models: 342-4500Vac, 3-Phase 400V models: 342-528Vac. Constant load.
"8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.
"9: For 10V-150V models: Measured with JEITA RC-913IC (11) probe. For 300-600V models: 342-528Vac. Constant load.
"8: From No-Load to Full-Load, constant input voltage. Newsured at the sensing point in Remote Sense.
"10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
"11: From 10% to 10% of Rated Output Voltage, with rated, resistive load.
"12: From 90% to 10% of Rated Output Voltage, rating, constant input voltage.
"13: Fhac load voltage change, equal to the unit voltage rating, constant input voltage.
"14: For 10W model is a 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 in ripple is measured at 2V and rated output current.
"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 1200A up to 40°C and 900A up to 30°C.
"20:CSP10KW For 10V model olly: Max. output current for using IEEE is 1200A up to 40°C and 1350A up to 30°C.
"21: For 10V model olly: Six. output current for using IEEE is 1200A up to 40°C and





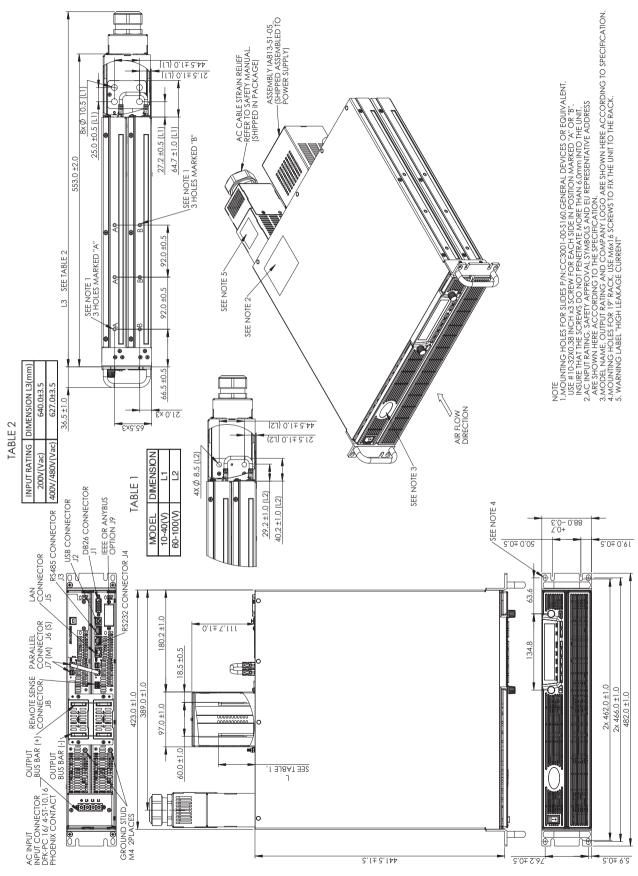
### Outline Drawing GENESYS<sup>™</sup> G2.7kW/G3.4kW/G5kW - 3-Phase



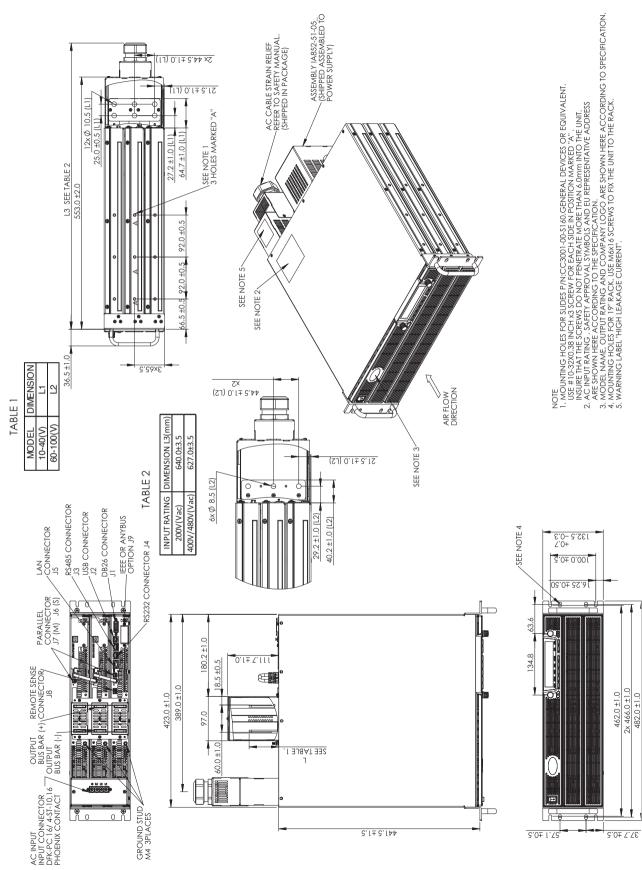


### Outline Drawing GENESYS<sup>™</sup> GB1kW/1.7kW/GB2.7kW/GB3.4kW/GB5kW - ATE Version

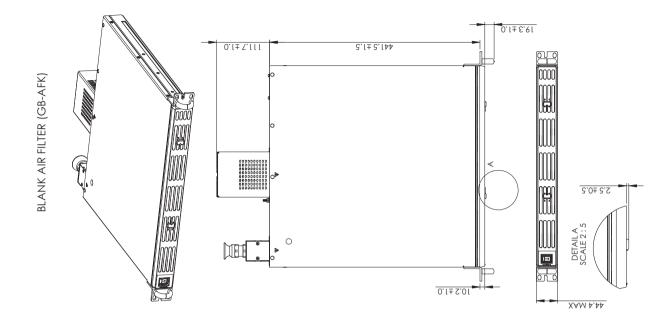
### Outline Drawing GENESYS<sup>™</sup> GSP10kW

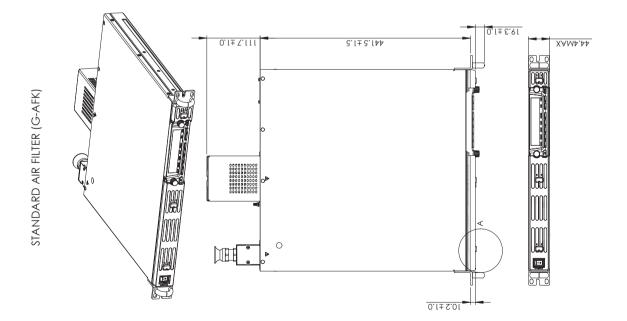






# Outline Drawing GENESYS<sup>™</sup> Air Filter Kit



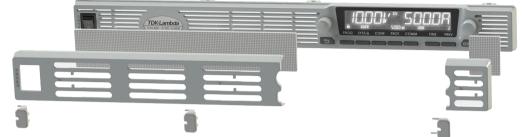


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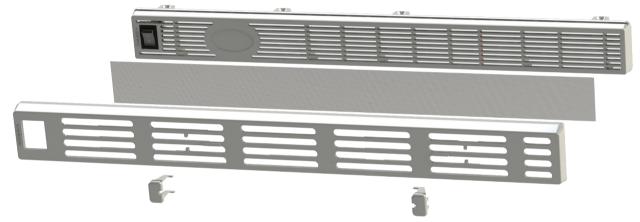
### Front Panel Air Filter Assembly

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</li>
- Altitude
- For all models (except 10V): derate 2°C/100m or 2% of load/100m (above 2000m)
- For 10V model: derate 1°C/100m or 2% of load/100m (above 2000m)

#### Filter Foam Technical Specifications

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

### **Air Filter Assembly Components**

Standard Unit (P/N: G-AFK) • Air Filter Cover (two pieces)

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

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

Air Filter Cover (one piece)

Slide Button #1 (two locations) • Filter foam (one piece)

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