GPE-1205/1323

Single Channel Linear DC Power Supply

CE · Remote I/O

GW INSTEK
Simply Reliable

Low Noise · Protection · Key Lock · Remote Sense

The GPE-1000 series is a single output, 96 W to 100 W, linear DC power supply. GPE-1000 series provides small, compact size for bench use; low output ripple and noise ≤ 0.5 mVrms; High resolution setting and readback. Also, the GPE-1000 Series offer 4-wire remote sense to give you an accurate voltage at the load.
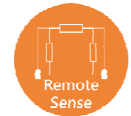
FEATURES

* 2.4" TFT LCD
* Encoder Switch to Set up Voltage and Current
* Voltage Setting Resolution 1 mV
* Voltage Readback Resolution 100 μV
* Current Setting Resolution 0.1 mA
* Current Readback Resolution 10 μA
* Provided Hardware Protections: OVP, OCP, OTP, On/Off Switch, Key Lock
* Provided Remote Sense (Compensates Voltage up to 1 V)
* Can Perform Series/Parallel Connection of Two GPE-1000 Units of The Same Model Through The Rear Panel Control I/O Interface

A HI RESOLUTION SETTING AND READBACK

B REMOTE SENSING
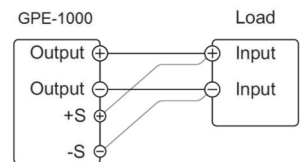
C PROTECTION, OVP, OCP, KEY LOCK, ON/OFF

D TWO UNITS CAN SERIES/PARALLEL

European Type Jack Terminal

APPLICATIONS

* Research & Education
* HiFi Audio Circuit
* Devie/Components Testing
* 3C Products Testing

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SPECIFICATIONS

		GPE-1205	GPE-1323
OUTPUT RATING			
Output Voltage		0.000 V to 20.000 V	0.000 V to 32.000 V
Output Current		0.0000 A to 5.0000 A	0.0000 A to 3.0000 A
Output Power		100 W	96 W
CONSTANT VOLTAGE OPERATION			
Line Regulation		$\leq$ 0.01 % + 3 mV	
Load Regulation		$\leq$ 0.01 % + 5 mV; $\leq$ 0.01 % + 5mV ($\geq$ 10 A)	
Ripple & Noise (5 Hz to 1 MHz)		$\leq$ 0.5 mVrms	
Transient Recovery Time		$\leq$ 100 μs (50 % load change, minimum load 0.5 A)	
Setting Range		0 V to 21.000 V	0 V to 33.600 V
Temperature Coefficient		$\leq$ 300 ppm/°C	
CONSTANT CURRENT OPERATION			
Line Regulation		$\leq$ 0.2 % + 3 mA	
Load Regulation		$\leq$ 0.2 % + 3 mA	
Ripple & Noise		$\leq$ 2 mArms	
Setting Range		0 A to 5.2500 A	0 A to 3.1500 A
RESOLUTION			
Voltage	Programming/Readback	1 mV / 0.1 mV	1 mV / 0.1 mV
Current	Programming/Readback	0.1 mA / 0.01 mA	0.1 mA / 0.01 mA
2 UNITS WITH SERIES/PARALLEL FUNCTION *1			
Tracking Series Voltage/Current		0 V to 40.000 V, 0 A to 5.0000 A	0 V to 64.000 V, 0 A to 3.0000 A
Tracking Parallel Voltage/Current		0 A to 20.000 A, 0 A to 10.0000 A	0 V to 32.000 V, 0 A to 6.0000 A
METER			
Full Scale	Voltage/Current	20.000 V / 5.0000 A	32.000 V / 3.0000 A
Programming	Voltage/Current	5 digits / 6 digits	
Readback Resolution	Voltage/Current	5 digits / 6 digits	
Setting Accuracy	Voltage	± (0.03 % of reading + 10 mV)	
	Current	± (0.3 % of reading + 10 mA)	
Readback Accuracy	Voltage	± (0.03 % of reading + 10 mV)	
	Current	± (0.3 % of reading + 10 mA)	
PROTECTION			
OVP	Power Mode	OFF, ON (1.0 V to 22.0 V)	OFF, ON (1.8 V to 35.2 V)
	Setting Accuracy	$\leq$ ± 100 mV	
	Resolution	100 mV	
OCP	Power Mode	OFF, ON (0.25 A to 5.5 A)	OFF, ON (0.15 A to 3.3 A)
	Setting Accuracy	$\leq$ ± 20 mA	
	Resolution	10 mA	
Insulation Resistance		Between chassis and terminal : 20 MΩ or above (DC 500V) Between chassis and DC power cord : 30 MΩ or above (DC 500V)	
GENERAL SPECIFICATIONS			
Display		2.4" monochrome LCD	
Interface		Remote I/O, 9-pin terminal	
Operation Environment		Indoor use, Altitude: $\leq$ 2000 m; Ambient temperature: 0 °C to 40 °C / Relative humidity: $\leq$ 80 %; Installation category: II / Pollution degree: 2	
Storage Environment		Temperature: -10 °C to 70 °C, Humidity: $\leq$ 70 %	
Power Input		AC 100 V/120 V/220 V/240 V ± 10 %, 50 Hz or 60 Hz	
Power Consumption		300 VA	
Dimensions & Weight		107 mm x 124 mm x 313 mm, (W x H x D), Approx. 5.2 kg	

The specifications apply when the GPE-Series are powered on for at least 30 minutes under +20 °C to +30 °C.

Specifications subject to change without notice. GPE-1000_E_ID1DH

ORDERING INFORMATION

GPE-1205   100 W Single Channel Linear DC Power Supply (20 V /5 A)
GPE-1323   96 W Single Channel Linear DC Power Supply (32 V/3 A)

ACCESSORIES:
Power Cord x 1, Packing List x 1, Test lead: Non-European: GTL-104A x 1 Test lead: European: GTL-204A x 1

OPTIONAL ACCESSORIES

GTL-234   RS-232C cable, 9 pin
GRA-441-J   Rack Mount Kit for JIS type
GRA-441-E   Rack Mount Kit for EIA type

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