GPE-X323A Series

Multiple Output Linear DC Power Supply

GW INSTEK
Simply Reliable

CE Remote I/O



The GPE-X323A series is a cutting edge, economical linear DC Power supply. The GPE-X323A series features output power from 192 watts to 217 watts, independent isolated output channels , high resolution, low noise, high reliability, and compact size. The GPE-X323A series has a built-in digital panel control design to replace conventional control method. This unique design allows the GPE-X323A series linear DC power supply to provide users with more efficient functionalities, including set view and key lock so as to expedite the operation process. The key lock function protects DUTs by preventing others from changing voltage and current parameters. Additionally, output key light facilitates users in clearly reading the operational status of power supply.

FEATURES

* 1/2/3/4 Independent Isolated Output
* 4.3 Inch LCD Display
* Setting & Readback Resolution 10 mV/ 1 mA (GPE-1326A is 10 mV/2 mA)
* Output ON/OFF Switch
* Analog Control (Remote I/O) for Output ON/OFF
* Key Lock Function
* Tracking Series and Parallel Operation (Multi-channel Models)
* Recovery Time：≤100 μs (50 % Load Change, Minimum Load 0.5 A)
* Remote Sense (GPE-1326A Only)
* Optional European Jack Type Terminal

European Jack Type Terminal



GPE-1326A



GPE-2323A



GPE-3323A



GPE-4323A

Rear Panel



APPLICATIONS

* Laboratories and Educational Facilities
* Product Testing and Quality Assurance
* Service Operation and Post-Sales Support
* Product Development and Debugging

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SPECIFICATIONS

			GPE-4323A			GPE-3323A			GPE-2323A	GPE-1326A
OUTPUT RATING										
Total Channel			CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2	CH1
Output Voltage			0 V to 32.00 V		0 to 5.00 V	0 to 15.00 V	0 V to 32.00 V		5.0 V, ± 5 %	0 V to 32.00 V		0 V to 32.00 V
Output Current			0 A to 3.000 A		0 A to 1.000 A	0 A to 1.000 A	0 A to 3.000 A		5 A	0 A to 3.000 A		0 A to 6.000 A
Total Power			212 W				217 W			192 W		192 W
CONSTANT VOLTAGE OPERATION												
Line Regulation			≤ 0.01 % + 3 mV				≤ 0.01 % + 3 mV		≤ 3 mV	≤ 0.01 % + 3 mV		≤ 0.01 % + 3 mV
Load Regulation	(rating current ≤ 3 A)		≦ 0.01 % + 3 mV				≦ 0.01 % + 3 mV		≤ 5 mV	≦ 0.01 % + 3 mV		≦ 0.01 % + 3 mV
	(rating current > 3 A)		≦ 0.02 % + 5 mV				≦ 0.02 % + 5 mV			≦ 0.02 % + 5 mV		≦ 0.02 % + 5 mV
Ripple & Noise (5 Hz to 1 MHz)			≤ 1 mVrms									
Transient Recovery Time			≤ 100 μs (50 % load change, minimum load 0.5 A)									
Setting Range			0 V to 32.00 V		0 to 5.00 V	0 to 15.00 V	0 V to 32.00 V		5.0 V Fixed	0 V to 32.00 V		
Temperature Coefficient			≤ 300 ppm/°C									
CONSTANT CURRENT OPERATION												
Line Regulation			≤ 0.2 % + 3 mA									
Load Regulation			≤ 0.2 % + 3 mA									
Ripple & Noise			≤ 3 mArms									
Setting Range			0 A to 3.000 A		0 A to 1.000 A	0 A to 1.000 A	0 A to 3.000 A		-	0 A to 3.000 A		
RESOLUTION *1												
Voltage	Programming &		10 mV or 100 mV				10 mV or 100 mV		-	10 mV or 100 mV		10 mV or 100 mV
Current	Programming &		1 mA / 10 mA				1 mA / 10 mA		-	1 mA / 10 mA		2 mA / 10 mA
TRACKING OPERATION (CH1/CH2) *2												
Tracking Series Voltage/Current			0 V to 64.00 V / 0 A to 3.000 A									
Tracking Parallel Voltage/Current			0 V to 32.00 V / 0 A to 6.000 A									
Tracking Error			≤ 0.1 % + 10 mV of Master (No Load, with load add load regulation ≤ 100 mV)									
Parallel Regulation	Line		Line: ≦ 0.01 % + 3 mV									
	Load		Load: ≦ 0.01 % + 3 mV(rating current ≦ 3 A); ≦ 0.02 % + 5 mV(rating current > 3 A)									
Series Regulation	Line		Line: ≦ 0.01 % + 5 mV									
	Load		Load: ≦ 100 mV									
Ripple & Noise (5 Hz to 1 MHz)			(Parallel) ≤ 1 mVrms, (Series) ≤ 2 mVrms									
METER												
Full Scale	Voltage/Current		33.00 V / 3.200 A				33.00 V / 3.200 A		5.0 V Fixed	33.00 V / 3.200 A		33.00 V / 6.200 A
Programming	Voltage & Current		4 digits or 3 digits				4 digits or 3 digits		-	4 digits or 3 digits		4 digits or 3 digits
Readback Resolution	Voltage & Current		4 digits or 3 digits				4 digits or 3 digits		-	4 digits or 3 digits		4 digits or 3 digits
Setting Accuracy	Voltage	4 digits	± (0.1 % + 30 mV)				± (0.1 % + 30 mV)		-	± (0.1 % + 30 mV)		± (0.1 % + 30 mV)
		3 digits	± (0.1 % + 200 mV)				± (0.1 % + 200 mV)		-	± (0.1 % + 200 mV)		± (0.1 % + 200 mV)
	Current	4 digits	± (0.3 % + 6 mA)				± (0.3 % + 6 mA)		-	± (0.3 % + 6 mA)		± (0.3 % + 10 mA)
		3 digits	± (0.3 % + 20 mA)				± (0.3 % + 20 mA)		-	± (0.3 % + 20 mA)		± (0.3 % + 20 mA)
Readback Accuracy	Voltage	4 digits	± (0.1 % + 30 mV)				± (0.1 % + 30 mV)		-	± (0.1 % + 30 mV)		± (0.1 % + 30 mV)
		3 digits	± (0.1 % + 200 mV)				± (0.1 % + 200 mV)		-	± (0.1 % + 200 mV)		± (0.1 % + 200 mV)
	Current	4 digits	± (0.3 % + 6 mA)				± (0.3 % + 6 mA)		-	± (0.3 % + 6 mA)		± (0.3 % + 10 mA)
		3 digits	± (0.3 % + 20 mA)				± (0.3 % + 20 mA)		-	± (0.3 % + 20 mA)		± (0.3 % + 20 mA)
PROTECTION												
OVP	Power Mode		OFF, ON		OFF, ON	OFF, ON	OFF, ON		5.5 V	OFF, ON		OFF, ON
	Setting Accuracy		± 1 V						-	± 1 V		
	Resolution		1 V						-	1 V		
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			4.3" monochrome LCD									
Interface			Remote I/O, 10-pin terminal									
Operation Environment			Indoor use, Altitude: ≤ 2000 m; Ambient temperature: 0 °C to 40 °C / Relative humidity: ≤ 80 %; Installation category: II / Pollution degree: 2									
Storage Environment			Temperature: -10 °C to 70 °C, Humidity: ≤ 70 %									
Power Input			AC 100 V / 120 V / 220 V ± 10 %, 230 V + 10 %/-6 %, 50 Hz or 60 Hz									
Power Consumption			550 VA / 420 W, MAX									
Dimensions & Weight			210 mm x 155 mm x 306 mm, (W x H x D), Approx. 7 kg									

Note:

Specifications subject to change without notice. GPE-X323A_E_ID1DH

*1. Voltage ≥ 10.00 V, resolution is 100 mV, Voltage < 10.00 V, resolution is 10 mV.

*2. Only channel 1 and channel 2 can perform series and parallel functions, expect GPE-1326A.

ORDERING INFORMATION

GPE-4323A 212 W Quad-Channel DC Power Supply
GPE-3323A 217 W Triple-Channel DC Power Supply
GPE-2323A 192 W Dual-Channel DC Power Supply
GPE-1326A 192 W Single Channel DC Power Supply

ACCESSORIES:

Standard Type Jack Terminal:

GPE-4323A Power Cord x 1, Test Lead GTL-104A x 2, GTL-105A x 2
GPE-3323A Power Cord x 1, Test Lead GTL-104A x 3
GPE-2323A Power Cord x 1, Test Lead GTL-104A x 2
GPE-1326A Power Cord x 1, Test Lead GTL-104A x 1, GTL-105A x 1

European Type Jack Terminal:

GPE-4323A Power Cord x 1, GTL-203A x 2, GTL-204A x 2
GPE-3323A Power Cord x 1, GTL-204A x 3
GPE-2323A Power Cord x 1, GTL-204A x 2
GPE-1326A Power Cord x 1, GTL-203A x 1, GTL-204A x 1

OPTIONAL ACCESSORIES

GTL-104A Test Lead, U-type to Alligator Test Lead, Max. Current 10 A, 1000 mm
GTL-105A Test Lead, Alligator to Banana Test Lead, Max. Current 3 A, 1000 mm
GTL-201A Ground Lead, Banana to Banana, European Terminal, 200 mm
GTL-203A Test Lead, Banana to Alligator, European Terminal, Max. Current 3 A, 1000 mm
GTL-204A Test Lead, Banana to Alligator, European Terminal, Max. Current 10 A, 1000 mm

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