

GPE-X323A Series

Multiple Output Linear DC 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 : $\leq 100 \mu s$ (50 % Load Change,
Minimum Load 0.5 A)
- * Remote Sense (GPE-1326A Only)
- * Optional European Jack Type Terminal

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.

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 & Readback		10 mV or 100 mV				10 mV or 100 mV		-	10 mV or 100 mV		10 mV or 100 mV
Current Programming & Readback		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:

(*1) Voltage $\geq 10.00\text{ V}$, resolution is 100 mV, Voltage $< 10.00\text{ V}$, resolution is 10 mV.

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

The specifications apply when the GPE-Series are powered on for at least 30 minutes under $+20\text{ }^{\circ}\text{C}$ to $+30\text{ }^{\circ}\text{C}$.

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:			
Power Cord x 1, Test Lead:		European Test Leads:	
GPE-4323A	Test Lead GTL-104A x 2, GTL-105A x 2	GPE-4323A	GTL-203A x 2, GTL-204A x 2
GPE-3323A	Test Lead GTL-104A x 3	GPE-3323A	GTL-204A x 3
GPE-2323A	Test Lead GTL-104A x 2	GPE-2323A	GTL-204A x 2
GPE-1326A	Test Lead GTL-104A x 1, GTL-105A x 1	GPE-1326A	GTL-203A x 1, GTL-204A x 1

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