

## GPE-X323A Series

### Multiple Output Linear DC Power Supply

**GW INSTEK**  
Simply Reliable



#### FEATURES

- \* 1/2/3/4 Independent Isolated Output
- \* 4.3 Inch LCD Display
- \* Setting & Readback Resolution 10 mV/ 1 mA (GPE-1323A is 10 mV/2 mA)
- \* Output ON/OFF Switch
- \* Analog Control (Remote I/O) for Output ON/OFF
- \* Set View Function for Checking an Original V/I Setting During Output ON
- \* Key Lock Function
- \* Tracking Series and Parallel Operation
- \* Optional European Jack Type Terminal

#### APPLICATIONS

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

The GPE-X323A series is a cutting edge, economical linear DC Power supply. The GPE-X323A series features output power from 192 to 217 watts, three independent isolated output channels (for GPE-3323A), 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 Type Jack Terminal



GPE-1326A



GPE-2323A



GPE-3323A



GPE-4323A

#### Rear Panel



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SPECIFICATIONS					
		GPE-4323A	GPE-3323A	GPE-2323A	GPE-1326A
<b>OUTPUT MODE</b>					
Voltage & Current	CH1	0 V to 32 V / 0 A to 3 A	0 V to 32 V / 0 A to 3 A	0 V to 32 V / 0 A to 3 A	0 V to 32 V / 0 A to 6 A
	CH2	0 V to 32 V / 0 A to 3 A	0 V to 32 V / 0 A to 3 A	0 V to 32 V / 0 A to 3 A	-
	CH3	0 V to 5 V / 0 A to 1 A	5 V / 5 A	-	-
	CH4	0 V to 15 V / 0 A to 1 A	-	-	-
Tracking Series		0 V to 64 V / 0 A to 3 A	0 V to 64 V / 0 A to 3 A	0 V to 64 V / 0 A to 3 A	-
Tracking Parallel		0 V to 32 V / 0 A to 6 A	0 V to 32 V / 0 A to 6 A	0 V to 32 V / 0 A to 6 A	-
<b>VOLTAGE REGULATION</b>					
Line		$\leq 0.01\% + 3\text{ mV}$			
Load		$\leq 0.01\% + 3\text{ mV}$ (rating current $\leq 3\text{ A}$ ) $\leq 0.02\% + 5\text{ mV}$ (rating current $> 3\text{ A}$ )			
Ripple & Noise		$\leq 1\text{ mVrms}$ (5 Hz to 1 MHz)			
Recovery Time		$\leq 100\text{ }\mu\text{s}$ (50% load change, minimum load 0.5 A)			
Temperature Coefficient		$\leq 300\text{ ppm}/^\circ\text{C}$			
<b>CURRENT REGULATION</b>					
Line		$\leq 0.2\% + 3\text{ mA}$			
Load		$\leq 0.2\% + 3\text{ mA}$			
Ripple & Noise		$\leq 3\text{ mArms}$			
<b>TRACKING OPERATION (CH1,CH2)</b>					
Tracking Error		$\leq 0.1\% + 10\text{ mV}$ of Master (No Load, with load add load regulation $\leq 100\text{ mV}$ )			
Parallel Regulation		Line: $\leq 0.01\% + 3\text{ mV}$ Load: $\leq 0.01\% + 3\text{ mV}$ (rating current $\leq 3\text{ A}$ ) Load: $\leq 0.02\% + 5\text{ mV}$ (rating current $> 3\text{ A}$ )			
Ripple & Noise		$\leq 1\text{ mVrms}$ (5 Hz to 1 MHz)			
Series Regulation		Line: $\leq 0.01\% + 5\text{ mV}$ Load: $\leq 100\text{ mV}$			
Ripple & Noise		$\leq 2\text{ mVrms}$ (5 Hz to 1 MHz)			
<b>OVP</b>					
Range		CH1/CH2: OFF, ON (1 V to 36 V) CH3: OFF, ON (1 V to 6 V) (GPE-4323A) CH4: OFF, ON (1 V to 16 V) (GPE-4323A)			
Resolution		1 V			
Accuracy		$\leq \pm 1\text{ V}$			
<b>DISPLAY</b>					
LCD		4.3-inch single color LCD display			
Ammeter		CH1/CH2: 3.200 A, full scale, 4 digits or 3 digits CH3: 1.000 A, full scale, 4 digits or 3 digits CH4: 1.000 A, full scale, 4 digits or 3 digits 6.200 A full scale, 4 digits or 3 digits (GPE-1326A)			
Current Resolution		1 mA or 10 mA; 2 mA or 10 mA (GPE-1326A)			
Voltmeter		CH1/CH2: 32.00 V, full scale, 4 digits or 3 digits CH3: 5.00 V, full scale, 4 digits or 3 digits CH4: 15.00 V, full scale, 4 digits or 3 digits			
Voltage Resolution		10 mV or 100 mV			
<b>ACCURACY</b>					
Setting/Readback Accuracy	Voltage	$\pm (0.1\% \text{ of reading} + 30\text{ mV})$ (4 digits); $\pm (0.1\% \text{ of reading} + 200\text{ mV})$ (3 digits)			
	Current	$\pm (0.3\% \text{ of reading} + 6\text{ mA})$ (4 digits); $\pm (0.3\% \text{ of reading} + 20\text{ mA})$ (3 digits) (GPE-4323/3323/2323) $\pm (0.3\% \text{ of reading} + 10\text{ mA})$ (4 digits); $\pm (0.3\% \text{ of reading} + 20\text{ mA})$ (3 digits) (GPE-1326A)			
<b>CH3 ON THE GPE-3323A</b>					
Output		5 V $\pm 5\%$ , 5 A			
Line		$\leq 3\text{ mV}$			
Load		$\leq 5\text{ mV}$			
Ripple & Noise		$\leq 1\text{ mVrms}$ (5 Hz to 1 MHz)			
OVP		5.5 V			
<b>INSULATION</b>					
Chassis and Terminal		20 M $\Omega$ or above (DC 500 V)			
Chassis and AC Cord		30 M $\Omega$ or above (DC 500 V)			
<b>OPERATION ENVIRONMENT</b>					
Indoor use, Altitude: $\leq 2000\text{ m}$ ; Ambient temperature: 0 $^\circ\text{C}$ to 40 $^\circ\text{C}$ ; Relative humidity: $\leq 80\%$ ; Installation category: II; Pollution degree: 2					
<b>STORAGE ENVIRONMENT</b>					
Ambient temperature: -10 $^\circ\text{C}$ to 70 $^\circ\text{C}$					
Relative humidity: $\leq 70\%$					
<b>POWER SOURCE</b>					
AC 100 V / 120 V / 220 V $\pm 10\%$ , 230 V $\pm 10\%$ / -6%, 50/60Hz					
<b>CONSUMPTION</b>					
550 VA / 420 W, MAX					
<b>DIMENSIONS &amp; WEIGHT</b>					
210 mm x 155 mm x 306 mm, (W x H x D), Approx. 7 kg					
The specifications apply when the GPE-x323A series are powered on for at least 30 minutes under +20 $^\circ\text{C}$ to +30 $^\circ\text{C}$ . Specifications subject to change without notice. GPE-X323A_E_ID1DH					
<b>ORDERING INFORMATION</b>					
	Model	Output Volts (V)	Output Amps (A)	Weight (kg)	
GPE-1326A	Single Channel, 192 W Linear DC Power Supply	0 V to 32 V	0 A to 6 A	7	
GPE-2323A	2 Channels, 192 W Linear DC Power Supply	CH1/CH2: 0 V to 32 V	CH1/CH2: 0 A to 3 A	7	
GPE-3323A	3 Channels, 217 W Linear DC Power Supply	CH1/CH2: 0 V to 32 V CH3: 5 V	CH1/CH2: 0 A to 3 A CH3: 5 A	7	
GPE-4323A	4 Channels, 212 W Linear DC Power Supply	CH1/CH2: 0 V to 32 V CH3: 0 V to 5 V CH4: 0 V to 15 V	CH1/CH2: 0 A to 3 A CH3: 0 A to 1 A CH4: 0 A to 1 A	7	
<b>ACCESSORIES:</b>					
Standard Power Cord x 1, Packing List x 1, Test lead: Non-European GPE-1326A: GTL-104A x 1, GTL-105A x 1 GPE-3323A: GTL-104A x 3 GPE-2323A: GTL-104A x 2 GPE-4323A: GTL-104A x 2, GTL-105A x 2					
Test lead: European GPE-1326A: GTL-204A x 1, GTL-203A x 1 GPE-3323A: GTL-204A x 3 GPE-2323A: GTL-204A x 2 GPE-4323A: GTL-204A x 2, GTL-203A x 2					

**GOOD WILL INSTRUMENT CO., LTD.**

No.7-1, Jhongsing Road, Tucheng Dist., New Taipei City 236, Taiwan  
T +886-2-2268-0389 F +886-2-2268-0639  
E-mail: marketing@goodwill.com.tw



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