

GPE-3060/6030

Triple-Channel DC Power Supply

GW INSTEK
Simply Reliable



FEATURES

- * 1/2/3 Independent Isolated Output Channels
- * GPE-3060 Provides CH1/CH2: 0 ~ 30V/0 ~ 6A Output; CH3 Supports 5.0V at 5A
- * GPE-6030 Supports CH1/CH2: 0 ~ 60V/0 ~ 3A Output; CH3 Supports 5.0V at 5A
- * Series/Parallel Tracking Function
- * Setting/Read back Resolution :
Voltage (4digits) : 10mV (GPE-3060) / 20mV (GPE-6030)
Current (4digits) : 2mA (GPE-3060) / 1mA (GPE-6030)
- * Output On/Off Function
- * Simple Analog Control Interface
- * Multiple Protection Apparatuses Such as Overvoltage and Overload Protection Functions

APPLICATIONS

- * Scientific Research and Experimental Testing
- * Electronic Parts Test
- * 3C Electronic Product Test

The GPE-3060/6030 are high-resolution linear DC power supplies. Their primary aim is to replace the existing GPC-3060D/6030D models. The GPE-3060/6030 deliver 385 watts of output power and feature three independent isolated output channels. The GPE-3060 offers CH1/CH2 outputs of 0 to 30V and 0 to 6A, while the GPE-6030 supports CH1/CH2 outputs of 0 to 60V and 0 to 3A. Both models feature CH3 outputs of 5.0V at 5A.

Series/Parallel Operation Function

In addition to the independent output between each channel, GPE-3060/6030 can perform series/parallel automatic connection tracking function. Through the parallel or series function, the output of the power supply can be controlled at 30V/12A (parallel) (GPE-3060) or 120V/3A (series) (GPE-6030) and this function can be used on CH1/CH2.

With respect to high program resolution, GPE-3060 provides 10mV/2mA and GPE-6030 offers 20mV/1mA. GPE-3060/6030 adopts a new hybrid power supply design, which can save 13% of power consumption compared with the wattage of the conventional linear power supplies, and the volume and weight are significantly reduced.



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SPECIFICATIONS

Model		GPE-3060 / GPE-6030	
Channel		CH1&CH2	CH3
Output	Voltage	0 ~ 30.00V*2 (GPE-3060) / 0 ~ 60.00V*2 (GPE-6030)	5V,±5%
	Current	0 ~ 6.000A*2 (GPE-3060) / 0 ~ 3.000A*2 (GPE-6030)	5A
	Voltage/Current(MAX)	32V, 6.2A (GPE-3060) / 62V, 3.2A (GPE-6030)	
	Tracking Series	0 ~ 60V, 0 ~ 6A (GPE-3060) 0 ~ 120V, 0 ~ 3A (GPE-6030)	
	Tracking Parallel	0 ~ 30V, 0 ~ 12A (GPE-3060) 0 ~ 60V, 0 ~ 6A (GPE-6030)	
Load Regulation	Voltage	≤ 0.01%+5mV ≤ 0.02%+5mV (≥10A)	≤ 5mV
	Current	≤ 0.1%+3mA	
Line Regulation	Voltage	≤ 0.01%+3mV	≤ 3mV
	Current	≤ 0.1%+3mA	
Ripple & Noise	Constant Voltage	≤ 1mVrms (5Hz-1MHz)	≤ 1mVrms (5Hz-1MHz)
	Constant Current	≤ 2mArms	
Setting /Read back Resolution	Voltage(4digits)	10mV (GPE-3060) / 20mV (GPE-6030)	
	Current(4digits)	2mA (GPE-3060) / 1mA (GPE-6030)	
Setting /Read back Accuracy	Voltage	±(0.1% of reading+30mV) (4digits) ±(0.1% of reading+200mV) (3digits)	
	Current	±(0.3% of reading+10mA) (4digits) ±(0.3% of reading+20mA) (3digits)	
Recovery Time		≤ 100μs (50% load change, minimum load 0.5A)	≤ 100μs
Temperature Coefficient		≤ 300ppm/°C	
Tracking Operation	Series Regulation	Tracking error: ≤ 0.1% +10mV of Master (GPE-3060) ≤ 0.2% +20mV of Master (GPE-6030) (No Load, with load add load regulation ≤ 200mV)	--
		Line : ≤ 0.01% + 5mV Load : ≤ 200mV	
	Parallel Regulation	Line : ≤ 0.01% + 3mV Load : ≤ 0.01% + 5mV ≤ 0.02% + 5mV (≥10A)	
		Ripple & Noise	≤ 2mVrms(5Hz~1MHz)
OVP	Voltage	OFF,ON (1V ~ 35.0V) (GPE-3060) OFF,ON (1V ~ 65.0V) (GPE-6030)	5.5V
	Resolution	1V	--
	Setting Accuracy	≤ ±1V	
Protection	OVP	●	
Insulation	Chassis and Terminal 20MΩ or above (DC 500V) Chassis and AC cord 30MΩ or above (DC 500V)		
Features	Display	4.3" monochrome LCD	
	Inter-channel Isolation	●	
	Independent Output	●	
	Key Lock	●	
	Intelligent Cooling Fan	●	
	Power ON/OFF State Setting	●	
	EXT I/O Control	●	
	Display	4.3" single color LCD	
Power	Consumption	900VA,680W	
	AC Input	100V/120V/220V/230Vac±10%, 50/60Hz	
Dimensions & Weight	210 (W) x 155 (H) x 362 (D) mm, 10kg		

Specifications subject to change without notice. GPE-60303060_E_ID1DH

ORDERING INFORMATION

- GPE-3060** 3-channel, 385W linear DC Power Supply
- GPE-3060** 3-channel, 385W linear DC Power Supply (European type)
- GPE-6030** 3-channel, 385W linear DC Power Supply
- GPE-6030** 3-channel, 385W linear DC Power Supply (European type)

ACCESSORIES

- Quick Start Manual, Power Cord
- Test Lead: GTL-104A x 3
- European Test Leads: GTL-204A x 3, GTL-201A x 1

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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