

Multi-output DC Power Supply

GPE-3060/GPE-6030

QUICK START GUIDE

GW INSTEK PART NO. 82GP-60300MA1



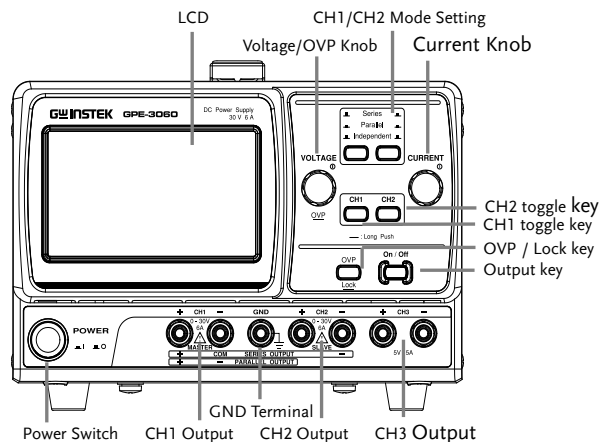
ISO-9001 CERTIFIED MANUFACTURER



Overview

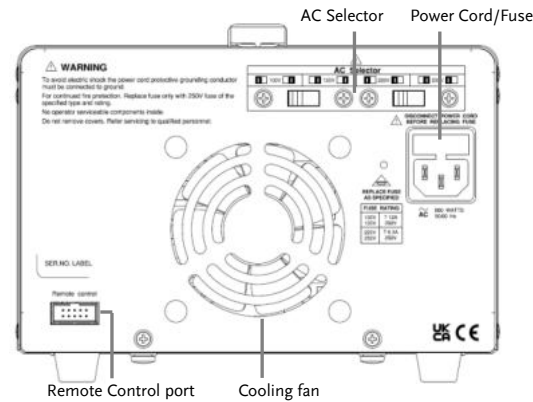
GPE-3060/GPE-6030 is a DC power supply with three independent outputs, with two sets of output voltage and current continuously adjustable and one set of fixed output. This series can be used in logic circuit locations that require adjustable output voltage or current, or in locations that require tracking mode.

Front Panel



The figure above is the front view of the GPE-3060.

Rear Panel



Setup

For more details about these features and functions, please refer to the user manual.

Select CH1/CH2 series or parallel mode

When you need to output a higher voltage or current, GPE can be connected in series or parallel to achieve it. When connecting in series, the output voltage is twice than that of a single channel. When connecting in parallel, the output current is twice than that of a single channel.

Setting value viewing

When the channel output is OFF, it is displayed as the set value; When ON, it is displayed as the read back value, when there is a set operation, it is displayed as the set value, and the status bar has a **set** display.

Lock from Front Panel

If it is necessary to keep the current setting unchanged to avoid damaging the load due to misoperation, a locking operation can be performed. However, the serial parallel and output keys will not be locked.

Set the output state at startup

Through the following steps, you can set the output state of the GPE at its next startup. There are two choices, ON and OFF available for selection. The factory default setting is OFF.

Set the displayed digit resolution for the voltage/current

The GPE can set the displayed digit resolution for the voltage and current are settings/readings to 3 or 4 digits. The factory default setting is 3 digits.

Remote Control Setting

Through the "Remote Control" terminal, GPE can turn the power on or off.

Specifications

The specifications apply when the GPE powered on for at least 30 minutes under +20°C ~ +30°C.

CH1/CH2	Independent	0 ~ 30V, 0 ~ 6A (GPE-3060)	
	Output Ratings	0 ~ 60V, 0 ~ 3A (GPE-6030)	
Voltage Regulation	Series	0 ~ 60V, 0 ~ 6A (GPE-3060)	
		0 ~ 120V, 0 ~ 3A (GPE-6030)	
	Parallel	0 ~ 30V, 0 ~ 12A (GPE-3060)	
		0 ~ 60V, 0 ~ 6A (GPE-6030)	
Current Regulation	Line	≤ 0.01% + 3mV	
	Load	≤ 0.01% + 5mV	
	Ripple & Noise	≤ 0.02% + 5mV (≥10A)	
	Recovery Time	≤ 1mVrms (5Hz ~ 1MHz)	
	Temperature Coefficient	≤ 100μs (50% load change, minimum load 0.5A)	
OVP	Range	≤ 300ppm/°C	
	Resolution	≤ 0.01% + 3mA	
	Accuracy	≤ 0.01% + 3mA	
Tracking Operation	Range	≤ 2mArms	
	Resolution	OFF, ON (1V ~ 35V) (GPE-3060)	
	Accuracy	OFF, ON (1V ~ 65V) (GPE-6030)	
	Output tracking Error	≤ 0.1% + 10mV of Master (GPE-3060)	
	Parallel Regulation	Line: ≤ 0.01% + 3mV	
		Load: ≤ 0.01% + 5mV; ≤ 0.02% + 5mV (≥10A)	
Series Regulation	Ripple & Noise: ≤ 2mVrms (5Hz ~ 1MHz)		
	Line: ≤ 0.01% + 5mV;		
Meter Display	Load: ≤ 200mV		
	Ripple & Noise: ≤ 2mVrms (5Hz ~ 1MHz)		
	Resolution	4.3" single color LCD	
	Setting/Read back	Voltage(4digits):	
CH3	Resolution	10mV (GPE-3060) / 20mV (GPE-6030)	
	Accuracy	Current(4digits):	
	Setting/Read back	2mA (GPE-3060) / 1mA (GPE-6030)	
	Accuracy	Voltage: ±(0.1% of reading + 30mV) (4digits)	
Operation Environment	Setting/Read back	±(0.1% of reading + 200mV) (3digits)	
	Accuracy	Current: ±(0.3% of reading + 10mA) (4digits)	
	Output Voltage/	±(0.3% of reading + 20mA) (3digits)	
	Output Current	5V ±5%	
	Line Regulation	5A	
	Load Regulation	≤ 3mV	
	Ripple & Noise	≤ 5mV	
Recovery Time	≤ 1mVrms (5Hz ~ 1MHz)		
Storage Environment	OVP	≤ 100μs	
	Indoor use, Altitude: ≤ 2000m	5.5V	
	Ambient temperature: 0 ~ 40°C;		
Power Source	Relative humidity: ≤ 80%		
	Installation category: II;	Relative humidity: ≤ 70%	
Accessories	Pollution degree: 2		
	Ambient temperature: -10 ~ 70°C		
Dimension	Relative humidity: ≤ 70%		
	AC 100V/120V/220V/230V±10%, 50/60Hz		
Weight	Quick Start manual x1		
	Non-European Test lead GTL-104A x3		
	European Test lead GTL-204A x 3, GTL-201A x 1		
	210 (W) x 155 (H) x 360 (D) mm		
	Approx. 10kg		