

# Multi-output DC Power Supply

GPE-3060/GPE-6030

## QUICK START GUIDE

GW INSTEK PART NO. 82GP-60300MA1



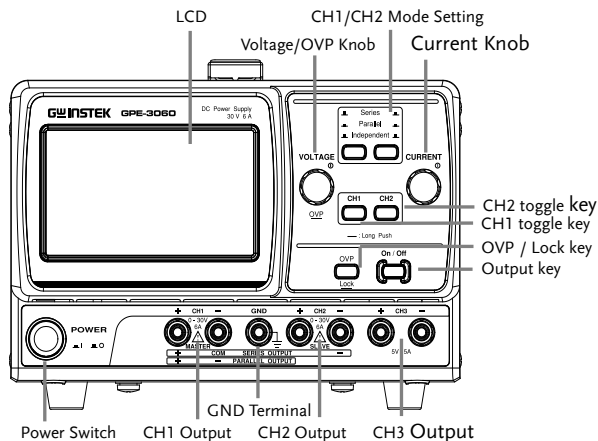
ISO-9001 CERTIFIED MANUFACTURER



## Overview

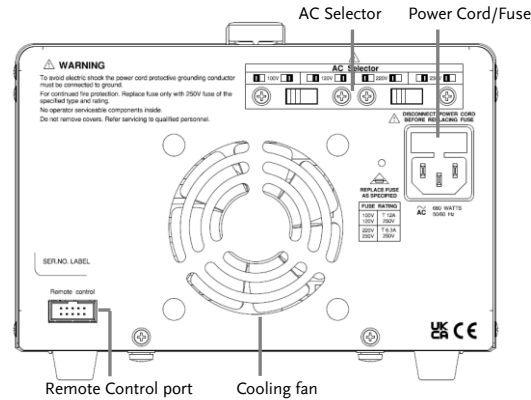
GPE-3060/GPE-6030 is a DC power supply with three independent outputs, with two sets of output voltage and current continuously adjustable and one set of fixed output. This series can be used in logic circuit locations that require adjustable output voltage or current, or in locations that require tracking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

<b>CH1/CH2</b>	Independent	0 ~ 30V, 0 ~ 6A (GPE-3060)	
	Series	0 ~ 60V, 0 ~ 3A (GPE-6030)	
<b>Output Ratings</b>	Parallel	0 ~ 60V, 0 ~ 6A (GPE-3060)	
		0 ~ 120V, 0 ~ 3A (GPE-6030)	
	Line	0 ~ 30V, 0 ~ 12A (GPE-3060)	
		0 ~ 60V, 0 ~ 6A (GPE-6030)	
<b>Voltage Regulation</b>	Line	≤ 0.01% + 3mV	
	Load	≤ 0.01% + 5mV	
		≤ 0.02% + 5mV (≥10A)	
	Ripple & Noise	≤ 1mVrms (5Hz ~ 1MHz)	
	Recovery Time	≤ 100μs (50% load change, minimum load 0.5A)	
<b>Current Regulation</b>	Line	≤ 0.01% + 3mA	
	Load	≤ 0.01% + 3mA	
	Ripple & Noise	≤ 2mArms	
	Range	OFF, ON (1V ~ 35V) (GPE-3060)	
<b>OVP</b>		OFF, ON (1V ~ 65V) (GPE-6030)	
	Resolution	1V	
<b>Tracking Operation</b>	Accuracy	≤ 1V	
	Output tracking Error	≤ 0.1% + 10mV of Master (GPE-3060)	
		≤ 0.2% + 20mV of Master (GPE-6030)	
	Parallel Regulation	(No Load, with load add load regulation ≤ 200mV)	
		Line: ≤ 0.01% + 3mV	
		Load: ≤ 0.01% + 5mV; ≤ 0.02% + 5mV (≥10A)	
	Series Regulation	Ripple & Noise: ≤ 2mVrms (5Hz ~ 1MHz)	
		Line: ≤ 0.01% + 5mV;	
		Load: ≤ 200mV	
		Ripple & Noise: ≤ 2mVrms (5Hz ~ 1MHz)	
<b>Meter Display</b>	LCD	4.3" single color LCD	
	Setting/Read back Resolution	Voltage(4digits):	
		10mV (GPE-3060) / 20mV (GPE-6030)	
	Accuracy	Current(4digits):	
2mA (GPE-3060) / 1mA (GPE-6030)			
<b>CH3</b>	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)	
<b>Operation Environment</b>	Output Voltage/	5V ±5%	
	Output Current	5A	
	Line Regulation	≤ 3mV	
	Load Regulation	≤ 5mV	
	Ripple & Noise	≤ 1mVrms (5Hz ~ 1MHz)	
	Recovery Time	≤ 100μs	
	OVP	5.5V	
	Indoor use, Altitude: ≤ 2000m		
	Ambient temperature: 0 ~ 40°C;	Relative humidity: ≤ 80%	
	Installation category: II;	Pollution degree: 2	
<b>Storage Environment</b>	Ambient temperature: -10 ~ 70°C		
	Relative humidity: ≤ 70%		
<b>Power Source</b>	AC 100V/120V/220V/230V±10%, 50/60Hz		
<b>Accessories</b>	Quick Start manual x1		
	Non-European Test lead	GTL-104A x3	
	European Test lead	GTL-204A x 3, GTL-201A x 1	
<b>Dimension</b>	210 (W) x 155 (H) x 360 (D) mm		
<b>Weight</b>	Approx. 10kg		