

# TRIPLE-CHANNEL PROGRAMMABLE DC POWER SUPPLY



## GPP-3060/6030(Europe)

### FEATURES

- \* 4.3" TFT LCD Display
- \* Setting Resolution: 1mV/0.1mA; Read Back Resolution: 0.1mV/0.1mA
- \* Low Ripple Noise:  $\leq 1\text{mVrms}/\leq 2\text{mArms}$
- \* Transient Response Time:  $\leq 100\mu\text{S}$
- \* Load Function (CC, CV, CR mode)
- \* Tracking Series and Parallel Function without Additional External Wiring
- \* Utilizing Hardware to Realize Over Voltage Protection/Over Current Protection/Over Temperature Protection
- \* Delay Function/Output Monitoring Function/Output Recorder Function
- \* Supports Setting Value, Measurement Value and Output Waveform Display
- \* Sequential Output Function and Built-in 8 Template Waveforms
- \* The Output Recorder Function Records the Output Voltage & Current Parameters with a Minimum Recording Interval of 1 Second
- \* Provides 10 Sets of Memory for Each Sequence/Delay/Recorder/Panel Setting Condition
- \* GPP-3060/6030 Supports a USB (Type A) Output Terminal
- \* Intelligent Temperature Control Fan Effectively Reduces Noise
- \* Standard: RS-232, USB, LAN, Ext I/O  
Optional (manufacturer installed only): GPIB



GPP-3060 and GPP-6030 triple-channel programmable DC power supplies are extension models of the GPP-X323 series. The maximum output power of these two models is 385W. GPP-3060 supports CH1/CH2: 0 ~ 30V / 0 ~ 6A output; GPP-6030 supports CH1/CH2: 0 ~ 60V / 0 ~ 3A output; CH3 of both models supports 1.8V, 2.5V, 3.3V, 5.0V/5A.

GPP-3060 and GPP-6030 inherit the high program resolution (1mV/0.1mA) and read back resolution (0.1mV/0.1mA) of the GPP series with low-ripple noise characteristics  $\leq 1\text{mVrms}/\leq 2\text{mArms}$  and  $\leq 100\mu\text{s}$  output transient recovery ability. An independent output on-off switch is provided for each channel.

For series and parallel applications of CH1 and CH2, the tracking function can automatically switch to series or parallel output without additional external wiring. Multiple display modes including single channel or multi-channel setting value, measurement value and waveform display to collocate with the built-in output monitoring function allow users to set the monitoring conditions according to their needs so as to generate an alarm or stop the output during the measurement process in order to stop the measurement and protect the customer's DUT. The output recorder function can record the voltage/current of the output process in the internal memory, and save the result as a (\*.REC) or (\*.CSV) file, and then save it to a USB flash drive. The unique load function of the GPP series can arbitrarily set CH1/CH2 as power supply or load function. For example, one channel is set as power output, and the other channel is set as load function to consume the power of the DUT to satisfy simple battery charging and discharging or load characteristic test by a single power supply. The sequence output function allows users to edit the power output waveforms by themselves, and also allows users to set the sequential constant voltage (CV) or constant current (CC) load waveforms such as serial power output or dynamic load simulation test. Channel 3 (CH3) incorporates 3A USB (Type A) output terminal, which can be used for USB charging test.

Pertaining to measurement protections, OVP/OCPP/OPP/OTP protection functions are provided. The protection mechanism of OVP/OCPP/OTP is implemented by hardware circuits, which has a faster response time to protect equipment or DUT while comparing with competitors who use software for protection. The OVP and OCP functions allow users to set the protection action point according to the conditions of the DUT. OPP only provides protection during the operation of the load function.

In addition, GPP-3060 and GPP-6030 incorporate terminal output on the rear panel, and include a voltage remote sensing terminal. Users can choose front panel or rear panel terminal output, which is convenient for stand-alone or rack operation. Output value setting and Sequence/ The Delay/Recorder functions provide 10 sets of internal memory, which can be uploaded/stored by a USB flash drive.



Front Panel



Rear Panel

### OPERATING RANGE

Model Number	Number of Output	Max. Power	CH1	CH2	CH3	Interface
GPP-3060	3	385W	0-30V/0-6A	0-30V/0-6A	1.8V/2.5V/3.3V/5V; 5A	USB, RS-232, LAN, GPIB
GPP-6030	3	385W	0-60V/0-3A	0-60V/0-3A	1.8V/2.5V/3.3V/5V; 5A	USB, RS-232, LAN, GPIB

\* GPIB interfaces cannot be retrofitted after the shipment. When ordering the model, please confirm whether to order GPIB.  
\* Model ordering varies by region.

### APPLICATIONS

- IoT Device
- Portable Device
- Wearable Device
- Sensor Component

GPP-3060/6030

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## SPECIFICATIONS

		GPP-3060			GPP-6030		
OUTPUT MODE	Number of Channel Voltage Current	CH1	CH2	CH3	CH1	CH2	CH3
		0~30V	0~30V	1.8/2.5/3.3/5V, ±5%	0~60V	0~60V	1.8/2.5/3.3/5V, ±5%
	0~6A	0~6A	5A(MAX), 3A(MAX,USB port)	0~3A	0~3A	5A(MAX), 3A(MAX,USB port)	
	Tracking Series Voltage Tracking Parallel Current	0~60V 0~12A		–	0~120V 0~6A		–
CONSTANT VOLTAGE OPERATION	Line Regulation Load Regulation	≤ 0.01%+3mV		≤ 3mV	≤ 0.01%+3mV		≤ 3mV
		≤ 0.01%+5mV (rating current ≤ 10A)		≤ 5mV	≤ 0.01%+5mV (rating current ≤ 10A)		≤ 5mV
	Ripple & Noise(5Hz~1MHz) Recovery Time	≤ 1mVrms		≤ 2mVrms	≤ 1mVrms		≤ 2mVrms
		≤ 100μs		≤ 100μs	≤ 100μs		≤ 100μs
CONSTANT CURRENT OPERATION	Line Regulation	≤ 0.01%+3mA		–	≤ 0.01%+3mA		–
	Load Regulation	≤ 0.01%+3mA		–	≤ 0.01%+3mA		–
	Ripple & Noise	≤ 2mA		–	≤ 2mA		–
TRACKING OPERATION (CH1,CH2)	Tracking Error	≤ 0.1%+10mV of Master(GPP-3060), ≤ 0.2%+20mV of Master(GPP-6030) (No Load , with load add load regulation ≤ 200mV)					
	Parallel Regulation	Line: ≤ 0.01%+3mV					
	Series Regulation	Load: ≤ 0.01%+5mV(rating current ≤ 10A); ≤ 0.02%+5mV(rating current > 10A)					
	Ripple & Noise(5Hz~1MHz)	Line: ≤ 0.01%+5mV ; Load: ≤ 200mV ≤ 2mVrms(5Hz ~ 1MHz)					
METER	Voltage Programming Resolution	1mV		–	2mV		–
	Current Programming Resolution	0.2mA		–	0.1mA		–
	Voltage Readback Resolution	0.1mV		–	0.1mV		–
	Current Readback Resolution	0.1mA		–	0.1mA		–
	Voltage Setting Accuracy	≤ ±(0.03% of reading+10mV)		–	≤ ±(0.03% of reading+10mV)		–
	Current Setting Accuracy	≤ ±(0.30% of reading+10mA)		–	≤ ±(0.30% of reading+10mA)		–
	Voltage Readback Accuracy	≤ ±(0.03% of reading+10mV)		–	≤ ±(0.03% of reading+10mV)		–
	Current Readback Accuracy	≤ ±(0.30% of reading+10mA)		–	≤ ±(0.30% of reading+10mA)		–
DC LOAD CHARACTERISTIC	Channel	CH1/CH2		–	CH1/CH2		–
	Display Power	0~50.00W		–	0~50.00W		–
	Display Voltage	1~32.00V		–	1~62.00V		–
	Display Current	0~6.200A		–	0~3.200A		–
	CV Mode Setting Range	1.500V~32.00V		–	1.500V~62.00V		–
	Resolution	10mV		–	10mV		–
	Set Accuracy	≤ 0.1%+30mV		–	≤ 0.1%+30mV		–
	Read Accuracy	≤ 0.1%+30mV		–	≤ 0.1%+30mV		–
	CC Mode Setting Range	0~6.200A		–	0~3.200A		–
	Resolution	1mA		–	1mA		–
	Set Accuracy	≤ 0.3%+10mA		–	≤ 0.3%+10mA		–
	Read Accuracy	≤ 0.3%+10mA		–	≤ 0.3%+10mA		–
	CR Mode Setting Range	1~1kΩ		–	1~1kΩ		–
	Resolution	1Ω		–	1Ω		–
Set Accuracy	≤ 3%+1Ω(Voltage ≥ 0.1V, Current ≥ 0.1A)		–	≤ 3%+1Ω(Voltage ≥ 0.1V, Current ≥ 0.1A)		–	
Read Accuracy	≤ 3%+1Ω(Voltage ≥ 0.1V, Current ≥ 0.1A)		–	≤ 3%+1Ω(Voltage ≥ 0.1V, Current ≥ 0.1A)		–	
INSULATION	Chassis and Terminal Chassis and AC Power Cord	20MΩ or above (DC 500V)		–	20MΩ or above (DC 500V)		–
		30MΩ or above (DC 500V)		–	30MΩ or above (DC 500V)		–
ENVIRONMENT CONDITION	Operation Temp	0~40°C					
	Storage Temp	-10~70°C					
	Operating Humidity	≤ 80% RH					
	Storage Humidity	≤ 70% RH					
INTERFACE	Standard: RS-232, USB, LAN, Ext I/O ; Optional(manufacturer installed only): GPIB						
POWER SOURCE	AC100V/120V/220V/230V±10%, 50/60Hz						
POWER CONSUMPTION	900VA, 680W						
DIMENSION & WEIGHT	213 (W) x 145 (H) x 362 (D) mm ; Approx. 10kg						

Specifications subject to change without notice.

GPP-30606030GD1DS\_202109

### ORDERING INFORMATION

**GPP-3060** 385W Triple-channel Programmable DC Power Supply  
**GPP-6030** 385W Triple-channel Programmable DC Power Supply

### ACCESSORIES

CD (User manual), Quick start manual, Power cord , Test lead :  
 European test leads: GTL-204A x 3, GTL-201A x 1

### OPTIONAL ACCESSORIES

**GTL-246** USB Cable  
**GRA-437-E** Rack Mount Kit (EIA)  
**GRA-437-J** Rack Mount Kit (JIS)

### INTERFACE

Standard: RS-232, USB, LAN, Ext I/O  
 Optional(manufacturer installed only): GPIB

NOTE : \* Contact local sales if you have issues with Interface purchase.

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