

**GPP-3060/6030/3650**

**GPP-3610H/7250**

## Triple & Single Channel Programmable DC Power Supply



### FEATURES

- \* 1-CH Models: GPP-3610H/7250;  
3-CH Models: GPP-3060/6030/3650
- \* Programming Resolution: 1 mV / 0.2 mA or  
2 mV / 0.1 mA (Model Dependent)
- \* Readback Resolution: 0.1 mV / 0.1 mA or  
0.1 mV / 0.2 mA (Model Dependent)
- \* Ripple Noise:  $\leq 1$  mVrms /  $\leq 2$  mArms or  
 $\leq 2$  mVrms /  $\leq 2$  mArms (Model Dependent)
- \* Tracking Series / Parallel: Available on 3-CH  
Models, No Wiring Needed
- \* Transient Response:  $\leq 100 \mu\text{s}$
- \* Load Modes: CV, CC, CR
- \* Protections: OVP, OCP, OTP
- \* Built-in Delay, Monitoring, Recorder, and  
Sequencing (8 waveforms)
- \* 10 Memory Sets for User-defined Settings
- \* Intelligent Fan Reduces Noise
- \* USB Type-A Front Panel (GPP-3060/6030/3650)
- \* 4.3" TFT LCD Display
- \* Interfaces: RS-232, USB, Ext I/O (Standard);  
LAN, GPIB+LAN (Optional)

### APPLICATIONS

- \* Scientific Research and Experimental Testing
- \* Battery Charging and Discharging Test
- \* Electronic Parts Test
- \* 3C Electronic Product Test

The GPP-400 W series includes five programmable DC power supply models: the single-channel GPP-3610H (36 V/10 A) and GPP-7250 (72 V/5 A), along with the triple-channel GPP-3060 (30 V/6 A), GPP-6030 (60 V/3 A), and GPP-3650 (36 V/5 A). These models feature high resolution, low ripple noise ( $\leq 1$  mVrms/ $\leq 2$  mArms), and fast transient recovery ( $\leq 100 \mu\text{s}$ ), making them ideal for precision testing environments.

The triple-channel models provide a maximum output power of 385 W, with CH1 and CH2 supporting different voltage and current ranges, while CH3 uniformly supports 1.8 V, 2.5 V, 3.3 V, and 5.0 V/5 A. The single-channel models offer 36 V/10 A and 72 V/5 A outputs, both equipped with independent output switches.

All models support multiple display modes, allowing users to view settings, measurements, and waveforms. The built-in monitoring function enables users to set conditions for alarms or automatic output shutdown to protect the DUT. Additionally, the output recorder function logs voltage and current data, which can be stored internally or transferred via USB.

For protection, all models include OVP (overvoltage protection), OCP (overcurrent protection), OPP (overpower protection), and OTP (overtemperature protection), implemented via hardware circuits for faster response compared to software-based protection. The rear panel features terminal outputs and remote sensing terminals, allowing users to choose front or rear panel output for standalone or rack-mounted operation.

Each model is equipped with Trigger In/Trigger Out functionality for external device synchronization and an intelligent temperature-controlled fan that adjusts speed based on power component temperature to minimize noise. Additionally, the sequence, delay, and recorder functions provide 10 internal memory slots, accessible via USB. Standard interfaces include RS-232 and USB, with optional LAN or LAN+GPIB interfaces available to meet diverse user requirements.



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SPECIFICATIONS		GPP-3610H	GPP-7250	GPP-6030	GPP-3060	GPP-3650
<b>OUTPUT RATING</b>						
Total Channel		1	1	3	3	3
Voltage / Current Range	CH1	0 V to 36.000 V / 0 A to 10.0000 A	0 V to 72.000 V / 0 A to 5.0000 A	0 V to 60.000 V / 0 A to 3.0000 A	0 V to 30.000 V / 0 A to 6.0000 A	0 V to 36.000 V / 0 A to 5.0000 A
	CH2	-	-	0 V to 60.000 V / 0 A to 3.0000 A	0 V to 30.000 V / 0 A to 6.0000 A	0 V to 36.000 V / 0 A to 5.0000 A
	CH3 *1	-	-	1.8 V/2.5 V/3.3 V/5.0 V, ± 5% (USB Port Volt ± 0.35 V); 5 A (USB Port 3 A)		-
Total Power		360 W	360 W	385 W	385 W	385 W
<b>CONSTANT VOLTAGE OPERATION</b>						
Line Regulation		≤ 0.01 % + 3 mV				
Load Regulation		≤ 0.01 % + 5 mV				
Ripple & Noise (5 Hz to 1 MHz)		≤ 2 mVrms				≤ 1 mVrms
Transient Recovery Time		≤ 100 μs (50 % load change, minimum load 0.5 A)				
Maximum Remote Sensing Compensation Voltage (Single Line)		1 V (only for rear terminal output)				
Temperature Coefficient		≤ 300 ppm/°C				
<b>CONSTANT CURRENT OPERATION</b>						
Line Regulation		≤ 0.01 % + 3 mA				
Load Regulation		≤ 0.01 % + 3 mA				
Ripple & Noise		≤ 2 mArms				
<b>RESOLUTION</b>						
Voltage	Programming/Readback	1 mV / 0.1 mV	2 mV / 0.1 mV	2 mV / 0.1 mV	1 mV / 0.1 mV	1 mV / 0.1 mV
Current	Programming/Readback	0.2 mA / 0.2 mA	0.1 mA / 0.1 mA	0.1 mA / 0.1 mA	0.2 mA / 0.1 mA	0.2 mA / 0.1 mA
<b>TRACKING OPERATION (CH1/CH2) *2</b>						
Tracking Series Voltage/Current *3				0 V to 120.000 V / 0 A to 3.0000 A	0 V to 60.0000 V / 0 A to 6.0000 A	0 V to 72.0000 V / 0 A to 5.0000 A
Tracking Parallel Voltage/Current *3				0 V to 60.0000 V / 0 A to 6.0000 A	0 V to 30.0000 V / 0 A to 12.000 A	0 V to 36.0000 V / 0 A to 10.000 A
Tracking Error				≤ 0.2 % + 20 mV of Master		
Parallel Regulation	Line			≤ 0.1 % + 10 mV of Master		
	Load			(No Load, with load add load regulation ≤ 200 mV) ≤ 0.01 % + 3 mV		
Series Regulation	Line			≤ 0.01 % + 5 mV (rating current ≤ 10 A)		
	Load			≤ 0.02 % + 5 mV (rating current > 10 A)		
Ripple & Noise				≤ 0.01 % + 5 mV ≤ 200 mV ≤ 2 mVrms (5 Hz to 1 MHz)		
<b>METER</b>						
Full Scale	Voltage/Current	36.5000 V / 10.200 A	72.5000 V / 5.2000 A	62.0000 V / 3.2000 A	32.0000 V / 6.2000 A	36.5000 V / 5.2000 A
Programming	Voltage/Current	5 digits / 6 digits		5 digits / 5 digits		
Readback Resolution	Voltage/Current	6 digits / 6 digits		6 digits / 5 digits		
Setting Accuracy	Voltage	± (0.03 % of reading + 10 mV)				
	Current	± (0.3 % of reading + 10 mA)				
Readback Accuracy	Voltage	± (0.03 % of reading + 10 mV)				
	Current	± (0.3 % of reading + 10 mA)				
<b>DC LOAD MODE</b>						
Display	Voltage	1 V to 36.50 V	1 V to 72.50 V	1 V to 62.00 V	1 V to 32.00 V	1 V to 36.50 V
	Current	0 A to 10.200 A	0 A to 5.200 A	0 A to 3.200 A	0 A to 6.200 A	0 A to 5.200 A
	Power	0 W to 100.00 W	0 W to 100.00 W	0 W to 100.00 W	0 W to 50.00 W	0 W to 50.00 W
CV Mode	Setting Range	1.500 V to 36.50 V	1.500 V to 72.50 V	1.500 V to 62.00 V	1.500 V to 32.00 V	1.500 V to 36.50 V
	Setting/Readback Resolution	≤ ± (0.1 % + 30 mV) 10 mV	≤ ± (0.1 % + 30 mV) 10 mV	≤ ± (0.1 % + 30 mV) 10 mV	≤ ± (0.1 % + 30 mV) 10 mV	≤ ± (0.1 % + 30 mV) 10 mV
CC Mode	Setting Range	0 A to 10.200 A	0 A to 5.200 A	0 A to 3.200 A	0 A to 6.200 A	0 A to 5.200 A
	Setting/Readback Resolution	≤ ± (0.3 % + 10 mA) 1 mA	≤ ± (0.3 % + 10 mA) 1 mA	≤ ± (0.3 % + 10 mA) 1 mA	≤ ± (0.3 % + 10 mA) 1 mA	≤ ± (0.3 % + 10 mA) 1 mA
CR Mode *4	Setting Range	1 Ω to 1 kΩ	1 Ω to 1 kΩ	1 Ω to 1 kΩ	1 Ω to 1 kΩ	1 Ω to 1 kΩ
	Setting/Readback Resolution	≤ ± (3 % + 1 Ω) 1 Ω	≤ ± (3 % + 1 Ω) 1 Ω	≤ ± (3 % + 1 Ω) 1 Ω	≤ ± (3 % + 1 Ω) 1 Ω	≤ ± (3 % + 1 Ω) 1 Ω
<b>CH3 SPECIFICATION *5</b>						
Output Voltage					1.8 V/2.5 V/3.3 V/5.0 V, ± 5 %	
Output Current					5 A	
Meter					1.8 V/2.5 V/3.3 V/5.0 V	
Line Regulation					≤ 3 mV	
Load Regulation					≤ 5 mV	
Ripple & Noise					≤ 2 mVrms	
Transient Recovery Time					≤ 100 μs (50 % load change, minimum load 0.5 A)	
USB Port	Output				1.8 V/2.5 V/3.3 V/5.0 V, ± 0.35 V, 3 A	
	OCP				3.1 A (USB port)	
<b>PROTECTION</b>						
OVP	Power Mode	OFF,ON (0.5 V to 38.0 V)	OFF,ON (0.5 V to 75.0 V)	OFF,ON (0.5 V to 65.0 V)	OFF,ON (0.5V to 35.0 V)	OFF,ON (0.5 V to 38.0 V)
	Load Mode	OFF,ON (1.5 V to 38.0 V)	OFF,ON (1.5 V to 75.0 V)	OFF,ON (1.5 V to 65.0 V)	OFF,ON (1.5V to 35.0 V)	OFF,ON (1.5 V to 38.0 V)
	Setting Accuracy	± 100 mV				
	Resolution	100 mV				
OCP	Power Mode	OFF,ON (0.05 A to 10.5 A)	OFF,ON (0.05 A to 5.50 A)	OFF,ON (0.05 A to 3.50 A)	OFF,ON (0.05 A to 6.50 A)	OFF,ON (0.05 A to 5.50 A)
	Load Mode	OFF,ON (0.05 A to 10.5 A)	OFF,ON (0.05 A to 5.50 A)	OFF,ON (0.05 A to 3.50 A)	OFF,ON (0.05 A to 6.50 A)	OFF,ON (0.05 A to 5.50 A)
	Setting Accuracy	± 20 mA				
	Resolution	10 mA				
Insulation Resistance		Between chassis and terminal : 20 MΩ or above (DC 500V)				
		Between chassis and DC power cord : 30 MΩ or above (DC 500V)				
<b>GENERAL SPECIFICATIONS</b>						
Display		4.3-inch TFT LCD				
Interface		Standard RS-232, USB (CDC), Ext. I/O, Optional (manufacturer installed only): LAN, GPIB+LAN				
Operation Environment		Indoor use, Altitude: ≤ 2000 m; Ambient temperature: 0 °C to 40 °C / Relative humidity: ≤ 80 %; Installation category: II / Pollution degree: 2				
Storage Environment		Temperature: -10 °C to 70 °C, Humidity: ≤ 70 %				
Power Input		AC 100 V/120 V/220 V/230 V ± 10 %, 50 Hz or 60 Hz				
Power Consumption		900 VA, 680 W				
Dimensions & Weight		213 mm x 145 mm x 362 mm (W x H x D), Approx. 10 kg				

- Note: \*1. Warning : The CH3 output current from the 2 terminals should Not exceed 5A.  
\*2. Tracking is not supported in LOAD mode, and not supported in 1 channel mode.  
\*3. Only Channel 1 and Channel 2 can perform series and parallel functions.  
\*4. Setting/feedback accuracy requirements: voltage ≥ 0.1 V, current ≥ 0.1 A.  
\*5. The CH3 specification is only suitable for GPP-3060/6030/3650.

Specifications subject to change without notice.

GPP-Series\_GD1DS\_202603

ORDERING INFORMATION	
GPP-3610H	360 W Single Channel Programmable DC Power Supply (36 V / 10 A)
GPP-7250	360 W Single Channel Programmable DC Power Supply (72 V / 5 A)
GPP-6030	385 W Triple-Channel Programmable DC Power Supply (60 V / 3 A * 2; 5 V / 5 A *1)
GPP-3060	385 W Triple-Channel Programmable DC Power Supply (30 V / 6 A * 2; 5 V / 5 A *1)
GPP-3650	385 W Triple-Channel Programmable DC Power Supply (36 V / 5 A * 2; 5 V / 5 A *1)
ACCESSORIES	
Standard Type Jack Terminal:	
GPP-3610H/7250 Power Cord x 1, Test Lead GTL-104A x 1	
GPP-6030/3060/3650 Power Cord x 1, Test Lead GTL-104A x 3	
European Type Jack Terminal:	
GPP-3610H/7250 Power Cord x 1, Test Lead GTL-204A x1, GTL-201A x1	
GPP-6030/3060/3650 Power Cord x 1, Test Lead GTL-204A x 3, GTL-201A x 1	

OPTION (Manufacturer Installed Only)	
LAN Interface, GPIB + LAN Interface	
OPTIONAL ACCESSORIES	
GTL-104A	Test Lead, U-type to Alligator Test Lead, Max. Current 10 A, 1000 mm
GTL-201A	Ground Lead, Banana to Banana, European Terminal, 200 mm
GTL-204A	Test Lead, Banana to Alligator, European Terminal, Max. Current 10 A, 1000 mm
GTL-246	USB Cable(USB 2.0 Type A-Type B Cable, 4P)
GRA-449-J	Rack Mount kit (JIS)
GRA-449-E	Rack Mount kit (EIA)
FREE DOWNLOAD	
PC Software, LabVIEW Driver	