

MULTIPLE OUTPUT LINEAR D.C. POWER SUPPLY



GPS-2303/3303/4303



Patent No. ZL 02 3 35264. 7

FEATURES

- 2, 3 and 4 Independent Isolated Output
- Four "3 Digits" LED Displays
- 0.01% Load and Line Regulation
- Low Ripple and Noise
- Tracking Operation and Auto Series/Parallel Operation
- Output ON/OFF Switch
- Output Voltage and Current Setting When Output Disable (Except for GPS-2303)
- Fan Speed Control Circuit to Minimize Fan Noise
- Over Load and Reverse Polarity Protection
- Optional European Jack Type Terminal

GPS-001

Voltage/Current protection Knob



Rear Panel



GPS-3303

The GPS-Series are 2-4 channel, 180 to 200W output, linear DC power supplies. Overload and reverse polarity protection and an output on/off switch keep the GPS-Series and their load safe from unexpected conditions. A high regulation (0.01%±3mV) and low ripple/noise (< 1mVrms, 5Hz~1MHz) are maintained for channel 1 and 2 in constant voltage mode. Automated cooling fan speed control minimizes fan noise according to load conditions, ensuring quiet operation. The GPS-Series are an ideal solution for lightweight, inexpensive bench-top or portable applications requiring high regulation and multiple outputs.

SPECIFICATIONS		GPS-4303			GPS-3303			GPS-2303		
OUTPUT MODE		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2
Voltage	0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V	0 ~ 30V	5V Fixed	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 30V
	0 ~ 3A	1A Max.	1A Max.	0 ~ 3A	3A Max.	0 ~ 3A	0 ~ 3A	0 ~ 3A	0 ~ 3A	0 ~ 3A
Tracking Series Voltage		0 ~ 60V	---	---	---	0 ~ 60V	---	---	0 ~ 60V	---
Tracking Parallel Current		0 ~ 6A	---	---	---	0 ~ 6A	---	---	0 ~ 6A	---
CONSTANT VOLTAGE OPERATION (CH1, CH2)										
Line Regulation		±0.01% ± 3mV								
Load Regulation		±0.01% ± 3mV (rating current ≤ 3A)								
Ripple & Noise		≤ 0.02% ± 5mV (rating current > 3A)								
Recovery Time		≤ 1mVrms, 5Hz ~ 1MHz								
Tracking Error		±100µS (50% Load change, Minimum load 0.5A)								
CONSTANT CURRENT OPERATION (CH1, CH2)										
Line Regulation		±0.2% ± 3mA								
Load Regulation		±0.2% ± 3mA								
Ripple & Noise		≤ 3mArms								
TRACKING OPERATION (CH1, CH2)										
Tracking Error		±0.5% ± 10mV of CH1								
Series Regulation		±0.01% ± 5mV								
Load Regulation		±300mV								
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz								
CH3 OPERATION (for GPS-3303/4303)										
CH3 Voltage		GPS-3303: 2.2V ~ 5.2V, GPS-3303: 5V Fix								
Line Regulation		±5mV								
Load Regulation		±15mV								
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz								
Current Output		GPS-3303: 1A, GPS-3303: 3A								
CH4 OPERATION (for GPS-4303)										
CH4 VOLTAGE		8V ~ 15V								
Line Regulation		±5mV								
Load Regulation		±10mV								
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz								
Current Output		1A								
METER										
Digital		3 digits 0.5" LED display								
		GPS-4303/3303 Out ON Accuracy ± (0.5% of rdg + 2 digits)								
		GPS-4303/3303 Out OFF Accuracy ± (0.5% of rdg + 8 digits)								
		GPS-2303 Accuracy ± (0.5% of rdg + 2 digits)								
INSULATION										
Chassis and Terminal		≥ DC 500V / 20M(Ω)								
Chassis and AC Cord		≥ DC 500V / 30M(Ω)								
POWER SOURCE										
AC 100V/120V/220V±10%, 230V(±10%~6%), 50/60Hz										
DIMENSIONS & WEIGHT										
255(W) × 145(H) × 265(D) mm, Approx. 7 kg										
ORDERING INFORMATION										
GPS-4303 4 channels, 200W D.C. Power Supply										
GPS-3303 3 channels, 180W D.C. Power Supply										
GPS-2303 2 channels, 180W D.C. Power Supply										
ACCESSORIES :										
User manual x 1, Power cord x 1,										
GPS-4303: Test lead GTL-104 x 2, GTL-105 x 2 ; European test lead GTL-201 x 2, GTL-204 x 2, GTL-201A x 1										
GPS-3303: Test lead GTL-104 x 2, GTL-105 x 1 ; European test lead GTL-203 x 1, GTL-204 x 2, GTL-201A x 1										
GPS-2303: Test lead GTL-104 x 2 ; European test lead GTL-204 x 2, GTL-201A x 1										
OPTIONAL ACCESSORIES										
GPS-001 Voltage/Current Protection Knob (It's available OCT/07' production batch)										

LINEAR D.C. POWER SUPPLY



GPR-U Series



Patent No. 81011

FEATURES

- 0.01% High Regulation
- Constant Voltage and Constant Current Operation
- Low Ripple and Noise
- Overload and Reverse Polarity Protection
- 3 1/2 Digits 0.5" LED Display
- Application for Material and Products Aging
- Built-in Overvoltage and Overcurrent Tripped Crawler
- Ten-Turn Potentiometer

Rear Panel



GPR-6015HD



GPR-25H300

The GPR-U Series are single output, 500 to 900W, linear DC power supplies. Overload and reverse polarity protection in addition to OVP/OC/OTP protect the GPR-U Series and their load from unexpected conditions. High regulation and low ripple/noise are maintained at 0.01% and < 2mVrms, respectively for CV mode. The GPR-U series can be ordered with a customized output requirement from voltage rating from 8 to 1000V and current rating from 0.5~75A (under 1kVA available). The GPR-U Series are the ideal lineup for system applications requiring large output capacity and custom-made output settings, such as material testing and product copper plating.

SPECIFICATIONS	
CONSTANT VOLTAGE OPERATION	
Regulation	Line regulation ≤0.01% ± 3mV Load regulation ≤ 0.01% ± 5mV (≤10A) ≤ 0.02% ± 5mV (≥10A)
Ripple & Noise	≤2mVrms (5Hz ~ 1MHz)
Recovery Time	≤100µS (50% Load change, Minimum load 0.5A)
Output Range	0 to rating voltage continuously adjustable
CONSTANT CURRENT OPERATION	
Regulation	Line regulation ≤0.2% ± 3mA Load regulation ≤0.2% ± 3mA
Ripple Current	≤5mArms (≤20A), ≤20mArms (≤50A) ≤100mArms (≤100A)
Output Range	0 to rating current continuously adjustable
METER	
Type	3 1/2 Digits, 0.5" LED display
Accuracy	± (0.5% of rdg. + 2 digits)
INSULATION	
Chassis and Terminal	100M(Ω) or above (DC 1000V)
Chassis and AC Cord	100M(Ω) or above (DC 1000V)
POWER SOURCE	
AC 120V ±10%, 50/60Hz (AC220V or 240V order made)	
DIMENSIONS	
430(W) × 178(H) × 572(D) mm	

ORDERING INFORMATION				
Model	Output Volts (V)	Output Amps (A)	Weight (kg)	
GPR-1850HD	900W D.C. Power Supply	0 ~ 18	0 ~ 50	30
GPR-3520HD	700W D.C. Power Supply	0 ~ 35	0 ~ 30	29.5
GPR-6015HD	900W D.C. Power Supply	0 ~ 60	0 ~ 15	30
GPR-7510HD	750W D.C. Power Supply	0 ~ 75	0 ~ 10	29.5
GPR-16H50D	800W D.C. Power Supply	0 ~ 160	0 ~ 5	30.5
GPR-25H30D	750W D.C. Power Supply	0 ~ 250	0 ~ 3	29.5
GPR-35H20D	700W D.C. Power Supply	0 ~ 350	0 ~ 2	29.5
GPR-50H15D	750W D.C. Power Supply	0 ~ 500	0 ~ 1.5	29.5
GPR-60H15D	800W D.C. Power Supply	0 ~ 600	0 ~ 1.5	30.5
GPR-100H05D	500W D.C. Power Supply	0 ~ 1000	0 ~ 0.5	28.5
ACCESSORIES :				
User manual x 1				
Test lead GTL-105 x 1 (≤ 3A) or GTL-104 x 1 (≤ 10A) or Not Available (> 10A or 600V)				
NOTE: Special order 8 volts to 1000 volts and 0.5 Amps to 75 Amps under 1kVA available.				
Rear Panel Output for GPR-1850HD/3520HD/6015HD				