

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
Voltage		0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V		0 ~ 30V	5V Fixed
Current		0 ~ 3A	1A Max.	1A Max.		0 ~ 3A	3A Max.
Tracking Series Voltage		0 ~ 60V				0 ~ 60V	
Tracking Parallel Current		0 ~ 6A				0 ~ 6A	
CONSTANT VOLTAGE OPERATION (CH1, CH2)							
Line Regulation		≤ 0.01% + 3mV					
Load Regulation		≤ 0.01% + 3mV (rating current ≤ 3A) ≤ 0.02% + 5mV (rating current > 3A)					
Ripple & Noise		≤ 1mVrms, 5Hz ~ 1MHz					
Recovery Time		≤ 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-4303 : 2.2V ~ 5.2V, GPS-3303 : 5V Fix					
Line Regulation		≤ 5mV					
Load Regulation		≤ 15mV					
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz					
Current Output		GPS-4303 : 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 / 20MΩ					
Chassis and AC Cord		≥ DC 500V / 30MΩ					
POWER SOURCE							
		AC 100V/120V/220V±10%, 230V(+10%~-6%), 50/60Hz					
DIMENSIONS & WEIGHT							
		255(W) x 145(H) x 265(D) mm, Approx. 7 kg					

ORDERING INFORMATION

- GPS-4303 4-channels, 200W D.C. Power Supply
- GPS-3303 3-channels, 195W 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-203 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 Growbar
- * Ten-Turn Potentiometer

The GPR-U Series are single output, 500 to 900W, linear DC power supplies. Overload and reverse polarity protection in addition to OVP/OCP/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	100MΩ or above (DC 1000V)
Chassis and AC Cord	100MΩ or above (DC 1000V)
POWER SOURCE	
	AC 120V ± 10%, 50/60Hz (AC220V or 240V order made)
DIMENSIONS	
	430(W) x 178(H) x 572(D) mm

Rear Panel



GPR-6015HD



GPR-25H30D

ORDERING INFORMATION

Model	Output Volts (V)	Output Amps (A)	Weight (kg)
GPR-1850HD	0 ~ 18	0 ~ 50	30
GPR-3520HD	0 ~ 35	0 ~ 20	29.5
GPR-6015HD	0 ~ 60	0 ~ 15	30
GPR-7510HD	0 ~ 75	0 ~ 10	29.5
GPR-16H50D	0 ~ 160	0 ~ 5	30.5
GPR-25H30D	0 ~ 250	0 ~ 3	29.5
GPR-35H20D	0 ~ 350	0 ~ 2	29.5
GPR-50H15D	0 ~ 500	0 ~ 1.5	29.5
GPR-60H15D	0 ~ 600	0 ~ 1.5	30.5
GPR-100H05D	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

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