

MULTIPLE OUTPUT LINEAR D.C. POWER SUPPLY



GPS-2303/3303/4251/4303

CE 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 GPS-2303)
- * Fan Speed Control Circuit to Minimize Fan Noise
- * Over Load and Reverse Polarity Protection
- * Optional European Jack Type Terminal

The GPS-Series is dual to quad output, 55 to 200W, linear DC power supply. Overload/reverse polarity protection and output On/Off switch keep GPS and loads safe from unexpected conditions. High regulation and low ripple/noise are maintained at 0.01% and less than 1mVrms, respectively. Cooling fan speed control minimizes fan noise according to load conditions, ensuring quiet operation. The GPS-Series is an ideal solution for lightweight, inexpensive bench-top or portable applications requiring high regulation and multiple outputs.

SPECIFICATIONS											
		GPS-4303		GPS-4251		GPS-3303		GPS-2303			
OUTPUT MODE											
		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2
Voltage		0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V	0 ~ 25V	3 ~ 6V	8 ~ 15V	0 ~ 30V	5V Fixed	0 ~ 30V	
Current		0 ~ 3A	1A Max.	1A Max.	0 ~ 0.5A	2.5A Max.	1A Max.	0 ~ 3A	3A Max.	0 ~ 3A	
Tracking Series Voltage		0 ~ 60V	----		0 ~ 50V	----		0 ~ 60V	----		0 ~ 60V
Tracking Parallel Current		0 ~ 6A			0 ~ 1A			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 the CH1									
Series Regulation		≤ 300mV									
Load Regulation		≤ 0.01% + 3mV									
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz									
GPS-4303 2.2V ~ 5.2V OUTPUT (CH3); GPS-4251 3V~6V OUTPUT(CH3); GPS-3303 5V FIX OUTPUT (CH3)											
Line Regulation		≤ 5mV									
Load Regulation		≤ 15mV									
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz									
Current Output		GPS-4303: 1A, GPS-4251: 2.5A, GPS-3303: 3A									
GPS-4303 8V ~ 15V OUTPUT (CH4); GPS-4251 8V~15V OUTPUT (CH4)											
Line Regulation		≤ 5mV									
Load Regulation		≤ 10mV									
Ripple & Noise		≤ 2mVrms, 5Hz ~ 1MHz									
Current Output		1A									
METER											
Digital		3 digits 0.5" LED display GPS-4303/4251/3303 Out ON Accuracy ± (0.5% rdg + 2 digits) GPS-4303/4251/3303 Out OFF Accuracy ± (0.5% rdg + 8 digits) GPS-2303 Accuracy ± (0.5% rdg + 2 digits)									
INSULATION											
Chassis and Terminal Chassis and AC Cord		≥ DC 500V / 20MΩ ≥ DC 500V / 30MΩ									
POWER SOURCE											
AC 100V/120V/220V±10%, 230V(+10%~-6%), 50/60Hz											
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 GPS-4251: Test lead GTL-105 x 4; European test lead GTL-203 x 4 GPS-3303: Test lead GTL-104 x 2, GTL-105 x 1; European test lead GTL-203 x 1, GTL-204 x 2 GPS-2303: Test lead GTL-104 x 2; European test lead GTL-204 x 2											
DIMENSIONS & WEIGHT											
255(W) x 145(H) x 265(D) mm, Approx. 7 kg (GPS-4303/3303/2303); Approx. 6.3kg (GPS-4251)											

ORDERING INFORMATION	
GPS-4303 4-channels, 200W D.C. Power Supply	GPS-3303 3-channels, 195W D.C. Power Supply
GPS-4251 4-channels, 55W D.C. Power Supply	GPS-2303 2-channels, 180W D.C. Power Supply

LINEAR D.C. POWER SUPPLY



GPR-U Series

Patent No: 81011

The GPR-U Series is single output, 500 to 900W, linear DC power supply. Overload and reverse polarity protection, in addition to standard OVP/OCP/OTP, protect GPR and loads from unexpected conditions. High regulation and low ripple/noise are maintained at 0.01% and less than 2mVrms, respectively. Special order with custom output configuration is available within 18 to 1000V, 0.5 to 50A, under 1kVA. The GPR-U Series is the ideal lineup for system applications requiring large output capacity and custom-made output settings, such as materials and products aging.

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 Crowbar
- * Ten-Turn Potentiometer

SPECIFICATIONS	
CONSTANT VOLTAGE OPERATION	
Regulation	Line regulation ≤ 0.01% + 3mV Load regulation ≤ 0.01% + 5mV (<10A) ≤ 0.02% + 5mV rating ≥ 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 amperes continuously adjustable
METER	
Digital	3 1/2 Digits 0.5" LED display Accuracy ± (0.5% of rdg + 2 digits)
INSULATION	
Chassis and Terminal Chassis and AC Cord	100MΩ or above (DC 1000V) 100MΩ or above (DC 1000V)
POWER SOURCE	
AC 120V ± 10%, 50/60Hz (AC220V, or 240V order made)	
ACCESSORIES	
User manual x 1 Test lead GTL-105 x 1 (≤ 3A) or GTL-104 x 1 (≤ 10A) or Not Available (> 10A or 600V)	
DIMENSIONS	
430(W) x 178(H) x 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 ~ 20	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	

NOTE: Welcome special order from 8 volts to 1000 volts and 0.5 Amps to 75 Amps under 1kVA available.