

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

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									
Voltage Current Tracking Series Voltage Tracking Parallel Current	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2
	0 ~ 30V		2.2 ~ 5.2V	8 ~ 15V	0 ~ 30V		5V Fixed	0 ~ 30V	
	0 ~ 3A		1A Max.	1A Max.	0 ~ 3A		3A Max.	0 ~ 3A	
	0 ~ 60V		----		0 ~ 60V		----	0 ~ 60V	
0 ~ 6A				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		≤ 100 μS (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)