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## TECHNICAL PRODUCT INFORMATION

### Test & measurement instruments

- ▶ high - quality
- ▶ moderate prices
- ▶ excellent precision

#### **Your contact:**

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# 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	
<b>OUTPUT MODE</b>									
	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2
<b>Voltage</b>	0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V		0 ~ 30V	5V Fixed		0 ~ 30V	
<b>Current</b>	0 ~ 3A	1A Max.	1A Max.		0 ~ 3A	3A Max.		0 ~ 3A	
<b>Tracking Series Voltage</b>	0 ~ 60V	----			0 ~ 60V			0 ~ 60V	
<b>Tracking Parallel Current</b>	0 ~ 6A	----			0 ~ 6A			0 ~ 6A	
<b>CONSTANT VOLTAGE OPERATION (CH1, CH2)</b>									
<b>Line Regulation</b>	≤ 0.01% + 3mV								
<b>Load Regulation</b>	≤ 0.01% + 3mV (rating current ≤ 3A) ≤ 0.02% + 5mV (rating current > 3A)								
<b>Ripple &amp; Noise</b>	≤ 1mVrms, 5Hz ~ 1MHz								
<b>Recovery Time</b>	≤ 100μS (50% Load change, Minimum load 0.5A)								
<b>CONSTANT CURRENT OPERATION (CH1, CH2)</b>									
<b>Line Regulation</b>	≤ 0.2% + 3mA								
<b>Load Regulation</b>	≤ 0.2% + 3mA								
<b>Ripple &amp; Noise</b>	≤ 3mArms								
<b>TRACKING OPERATION (CH1, CH2)</b>									
<b>Tracking Error</b>	≤ 0.5% + 10mV of CH1								
<b>Series Regulation</b>	≤ 0.01% + 5mV								
<b>Load Regulation</b>	≤ 300mV								
<b>Ripple &amp; Noise</b>	≤ 2mVrms, 5Hz ~ 1MHz								
<b>CH3 OPERATION (for GPS-3303/4303)</b>									
<b>CH3 Voltage</b>	GPS-4303 : 2.2V ~ 5.2V, GPS-3303 : 5V Fix								
<b>Line Regulation</b>	≤ 5mV								
<b>Load Regulation</b>	≤ 15mV								
<b>Ripple &amp; Noise</b>	≤ 2mVrms, 5Hz ~ 1MHz								
<b>Current Output</b>	GPS-4303 : 1A, GPS-3303 : 3A								
<b>CH4 OPERATION (for GPS-4303)</b>									
<b>CH4 VOLTAGE</b>	8V ~ 15V								
<b>Line Regulation</b>	≤ 5mV								
<b>Load Regulation</b>	≤ 10mV								
<b>Ripple &amp; Noise</b>	≤ 2mVrms, 5Hz ~ 1MHz								
<b>Current Output</b>	1A								
<b>METER</b>									
<b>Digital</b>	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)								
<b>INSULATION</b>									
<b>Chassis and Terminal</b>	≥ DC 500V / 20MΩ								
<b>Chassis and AC Cord</b>	≥ DC 500V / 30MΩ								
<b>POWER SOURCE</b>									
AC 100V/120V/220V±10%, 230V(+10%~-6%), 50/60Hz									
<b>DIMENSIONS &amp; WEIGHT</b>									
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)