

# 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

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[Http://www.100y.com.tw](http://www.100y.com.tw)

## 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.

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## SPECIFICATIONS

	GPS-4303				GPS-3303		GPS-2303											
OUTPUT MODE	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										
CONSTANT VOLTAGE OPERATION (CH1, CH2)																		
<b>Line Regulation</b>	$\leq 0.01\% + 3\text{mV}$																	
<b>Load Regulation</b>	$\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$ )																	
<b>Ripple &amp; Noise</b>	$\leq 0.02\% + 5\text{mV}$ (rating current $> 3\text{A}$ )																	
<b>Recovery Time</b>	$\leq 1\text{mVrms} , 5\text{Hz} \sim 1\text{MHz}$																	
$\leq 100\mu\text{s}$ (50% Load change, Minimum load 0.5A)																		
CONSTANT CURRENT OPERATION (CH1, CH2)																		
<b>Line Regulation</b>	$\leq 0.2\% + 3\text{mA}$																	
<b>Load Regulation</b>	$\leq 0.2\% + 3\text{mA}$																	
<b>Ripple &amp; Noise</b>	$\leq 3\text{mArms}$																	
TRACKING OPERATION (CH1, CH2)																		
<b>Tracking Error</b>	$\leq 0.5\% + 10\text{mV}$ of CH1																	
<b>Series Regulation</b>	$\leq 0.01\% + 5\text{mV}$																	
<b>Load Regulation</b>	$\leq 300\text{mV}$																	
<b>Ripple &amp; Noise</b>	$\leq 2\text{mVrms} , 5\text{Hz} \sim 1\text{MHz}$																	
CH3 OPERATION (for GPS-3303/4303)																		
<b>CH3 Voltage</b>	GPS-4303 : 2.2V ~ 5.2V , GPS-3303 : 5V Fix																	
<b>Line Regulation</b>	$\leq 5\text{mV}$																	
<b>Load Regulation</b>	$\leq 15\text{mV}$																	
<b>Ripple &amp; Noise</b>	$\leq 2\text{mVrms} , 5\text{Hz} \sim 1\text{MHz}$																	
<b>Current Output</b>	GPS-4303 : 1A , GPS-3303 : 3A																	
CH4 OPERATION (for GPS-4303)																		
<b>CH4 VOLTAGE</b>	8V ~ 15V																	
<b>Line Regulation</b>	$\leq 5\text{mV}$																	
<b>Load Regulation</b>	$\leq 10\text{mV}$																	
<b>Ripple &amp; Noise</b>	$\leq 2\text{mVrms} , 5\text{Hz} \sim 1\text{MHz}$																	
<b>Current Output</b>	1A																	
METER																		
<b>Digital</b>	3 digits 0.5" LED display GPS-4303/3303 Out ON Accuracy $\pm (0.5\% \text{ of rdg} + 2\text{ digits})$ GPS-4303/3303 Out OFF Accuracy $\pm (0.5\% \text{ of rdg} + 8\text{ digits})$ GPS-2303 Accuracy $\pm (0.5\% \text{ of rdg} + 2\text{ digits})$																	
INSULATION																		
<b>Chassis and Terminal</b>	$\geq DC 500V / 20M\Omega$																	
<b>Chassis and AC Cord</b>	$\geq DC 500V / 30M\Omega$																	
POWER SOURCE																		
AC 100V/120V/220V $\pm 10\%$ , 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 x1  
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 x1  
GPS-2303:Test lead GTL-104 x 2 ; European test lead GTL-204 x 2, GTL-201A x1

### OPTIONAL ACCESSORIES

**GPS-001** Voltage/Current Protection Knob (It's available OCT/07' production batch)