

# Multi-Output D.C. Power Supply

C1

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

## GPS-2303/3303/4251/4303

### SPECIFICATIONS

OUTPUT MODE	Voltage Current Tracking Series Voltage Tracking Parallel Current	GPS-4303		GPS-4251				GPS-3303			GPS-2303			
		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH1	CH2
		0 ~ 30V	2.2 ~ 5.2V	8 ~ 15V	0 ~ 25V	3 ~ 6V	8 ~ 15V	0 ~ 30V	5V Fixed	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 30V	0 ~ 30V
0 ~ 3A	1A Max.	1A Max.	0 ~ 0.5A	2.5A Max.	1A Max.	0 ~ 3A	3A Max.	0 ~ 3A	0 ~ 3A	0 ~ 3A	0 ~ 3A	0 ~ 3A	0 ~ 3A	
0 ~ 60V	----	----	0 ~ 50V	----	----	0 ~ 60V	----	0 ~ 60V	0 ~ 60V	0 ~ 60V	0 ~ 60V	0 ~ 60V	0 ~ 60V	
0 ~ 6A	----	----	0 ~ 1A	----	----	0 ~ 6A	----	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 6A	
<b>CONSTANT VOLTAGE OPERATION (CH1, CH2)</b>	<b>Line Regulation</b> <b>Load Regulation</b>	$\leq 0.01\% + 3mV$ $\leq 0.01\% + 3mV$ (rating current $\leq 3A$ ) $\leq 0.02\% + 5mV$ (rating current $> 3A$ )												
	<b>Ripple &amp; Noise</b> <b>Recovery Time</b>	$\leq 1mV_{rms}$ , 5Hz ~ 1MHz $\leq 100\mu S$ (50% Load change, Minimum load 0.5A)												
<b>CONSTANT CURRENT OPERATION (CH1, CH2)</b>	<b>Line Regulation</b> <b>Load Regulation</b> <b>Ripple &amp; Noise</b>	$\leq 0.2\% + 3mA$ $\leq 0.2\% + 3mA$ $\leq 3mArms$												
<b>TRACKING OPERATION (CH1, CH2)</b>	<b>Tracking Error</b> <b>Series Regulation</b> <b>Load Regulation</b> <b>Ripple &amp; Noise</b>	$\leq 0.5\% + 10mV$ of the CH1 $\leq 300mV$ $\leq 0.01\% + 3mV$ $\leq 2mV_{rms}$ , 5Hz ~ 1MHz												
<b>GPS-4303 2.2V ~ 5.2V OUTPUT (CH3)</b> <b>GPS-3303 5V FIX OUTPUT (CH3)</b> <b>GPS-4251 3V~6V OUTPUT(CH3)</b>	<b>Line Regulation</b> <b>Load Regulation</b> <b>Ripple &amp; Noise</b> <b>Current Output</b>	$\leq 5mV$ $\leq 15mV$ $\leq 2mV_{rms}$ , 5Hz ~ 1MHz GPS-4303: 1A, GPS-3303: 3A, GPS-4251: 2.5A												
<b>GPS-4303 8V ~ 15V OUTPUT (CH4)</b> <b>GPS-4251 8V~15V OUTPUT (CH4)</b>	<b>Line Regulation</b> <b>Load Regulation</b> <b>Ripple &amp; Noise</b> <b>Current Output</b>	$\leq 5mV$ $\leq 10mV$ $\leq 2mV_{rms}$ , 5Hz ~ 1MHz 1A												
<b>METER</b>	<b>Digital</b>	3 digits 0.5" LED display GPS-4303/4251/3303 Out ON Accuracy $\pm (0.5\% rdg + 2 \text{ digits})$ GPS-4303/4251/3303 Out OFF Accuracy $\pm (0.5\% rdg + 8 \text{ digits})$ GPS-2303 Accuracy $\pm (0.5\% rdg + 2 \text{ digits})$												
<b>INSULATION</b>	<b>Chassis and Terminal</b> <b>Chassis and AC Cord</b>	$\geq DC 500V / 20M\Omega$ $\geq DC 500V / 30M\Omega$												
<b>POWER SOURCE</b>		AC 100V/120V/220V( $\pm 10\%$ )/230V( $+10\% \sim -6\%$ ), 50/60Hz												
<b>ACCESSORIES</b>		Instruction 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												
<b>DIMENSIONS &amp; WEIGHT</b>		255(W) x 145(H) x 265(D) mm, Approx. 7 kg (GPS-4303/3303/2303) ; Approx. 6.3kg (GPS-4251)												

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### ORDERING INFORMATION

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