

# 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<br>Current<br>Tracking Series Voltage<br>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 ~ 60V   | ----       |         | 0 ~ 50V  | ----      |         | 0 ~ 60V | ----     |          | 0 ~ 60V | ----    |          | 0 ~ 60V |
|   |  | 0 ~ 6A  | ----       |         | 0 ~ 1A   | ----      |         | 0 ~ 6A  | ----     |          | 0 ~ 6A  | ----    |          | 0 ~ 6A  |
| CONSTANT VOLTAGE OPERATION (CH1, CH2)   | Line Regulation<br>Load Regulation<br>Ripple & Noise<br>Recovery Time      | $\leq 0.01\% + 3mV$<br>$\leq 0.01\% + 3mV$ (rating current $\leq 3A$ )<br>$\leq 0.02\% + 5mV$ (rating current $> 3A$ )<br>$\leq 1mV_{rms}$ , 5Hz ~ 1MHz<br>$\leq 100\mu S$ (50% Load change, Minimum load 0.5A)   |            |         |          |           |         |         |          |          |         |         |          |         |
| CONSTANT CURRENT OPERATION (CH1, CH2)   | Line Regulation<br>Load Regulation<br>Ripple & Noise                       | $\leq 0.2\% + 3mA$<br>$\leq 0.2\% + 3mA$<br>$\leq 3mArms$   |            |         |          |           |         |         |          |          |         |         |          |         |
| TRACKING OPERATION (CH1, CH2)   | Tracking Error<br>Series Regulation<br>Load Regulation<br>Ripple & Noise   | $\leq 0.5\% + 10mV$ of the CH1<br>$\leq 300mV$<br>$\leq 0.01\% + 3mV$<br>$\leq 2mV_{rms}$ , 5Hz ~ 1MHz  |            |         |          |           |         |         |          |          |         |         |          |         |
| GPS-4303 2.2V ~ 5.2V OUTPUT (CH3)<br>GPS-3303 5V FIX OUTPUT (CH3)<br>GPS-4251 3V~6V OUTPUT(CH3) | Line Regulation<br>Load Regulation<br>Ripple & Noise<br>Current Output     | $\leq 5mV$<br>$\leq 15mV$<br>$\leq 2mV_{rms}$ , 5Hz ~ 1MHz<br>GPS-4303: 1A, GPS-3303: 3A, GPS-4251: 2.5A  |            |         |          |           |         |         |          |          |         |         |          |         |
| GPS-4303 8V ~ 15V OUTPUT (CH4)<br>GPS-4251 8V~15V OUTPUT (CH4)                                  | Line Regulation<br>Load Regulation<br>Ripple & Noise<br>Current Output     | $\leq 5mV$<br>$\leq 10mV$<br>$\leq 2mV_{rms}$ , 5Hz ~ 1MHz<br>1A  |            |         |          |           |         |         |          |          |         |         |          |         |
| METER   | Digital  | 3 digits 0.5" LED display<br>GPS-4303/4251/3303 Out ON Accuracy $\pm (0.5\% rdg + 2 \text{ digits})$<br>GPS-4303/4251/3303 Out OFF Accuracy $\pm (0.5\% rdg + 8 \text{ digits})$<br>GPS-2303 Accuracy $\pm (0.5\% rdg + 2 \text{ digits})$  |            |         |          |           |         |         |          |          |         |         |          |         |
| INSULATION  | Chassis and Terminal<br>Chassis and AC Cord                                | $\geq DC 500V / 20M\Omega$<br>$\geq DC 500V / 30M\Omega$  |            |         |          |           |         |         |          |          |         |         |          |         |
| POWER SOURCE  |  | AC 100V/120V/220V( $\pm 10\%$ )/230V( $+10\%/-6\%$ ), 50/60Hz   |            |         |          |           |         |         |          |          |         |         |          |         |
| ACCESSORIES   |  | Instruction manual x 1, Power cord x 1,<br>GPS-4303: Test lead GTL-104 x 2, GTL-105 x 2 ; European test lead GTL-203 x 2, GTL-204 x 2<br>GPS-4251: Test lead GTL-105 x 4 ; European test lead GTL-203 x 4<br>GPS-3303: Test lead GTL-104 x 2, GTL-105 x 1 ; European test lead GTL-203 x 1, GTL-204 x 2<br>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-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



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