



GPS

3000 series

A full line of DC power supplies with a wide range of voltage, current, and power outputs, as well as optimal safety features

The DC power supply can continuously adjust its output voltage with high accuracy, automatically switching between constant current (CC) and constant voltage (CV) modes as needed. The output voltage can be adjusted from 0 up to the rated voltage, and the current limit protection can be set as desired. In constant current mode, the stabilized output current can be continuously adjusted within the rated range. The single-output power supply features only one output channel.



GPS-3020S (front view)



GPS-3020S (side view)



GPS-3303D (front view)

Key Features

- Operate continuously at full load without overheating
- Fully overload protected
- Coarse and fine voltage controls
- High load/line regulation
- Very low ripple
- Constant voltage (CV) or constant current (CC) operation
- Touch-proof safety terminals
- Choice of models available

Ideal for

- Education
- Design
- Research
- Automated testing

Part

Numbers

GPS-3020S	510902
GPS-3305S	510080
GPS-3303S	510120
GPS-3603D	560678
GPS-3306D	560355
GPS-3303D	560214

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Technical Specifications

Model	GPS-3303D			GPS-3306D			GPS-3603D			GPS-3303S	GPS-3305S	GPS-3020S
Max. Power Output	190 W			375 W			375 W			90 W	150 W	1440 W
Output Mode:	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH1	CH1
Voltage	0-30V		2.2-5.2V	0-30V		5V	0-60V		5V	0-30V	0-30V	0-30V
Current	0-3A		1A	0-6A		3A	0-3A		3A	0-3A	0-5A	0-20A
Tracking Series Voltage	0-60V		---	0-60V		---	0-120V		---	---	---	---
Tracking Parallel Current	0-6A		---	0-12A		---	0-6A		---	---	---	---
Constant Voltage Operation (CH1, CH2) (continually adjustable)												
Line Regulation	$\leq 1*10^{-4} +3mV$											
Load Regulation	$\leq 1*10^{-4} +3mV$ (rating current $\leq 3A$) $\leq 2*10^{-4} +3mV$ (rating current $>3A$)											
Ripple & Noise	$\leq 1mV_{rms}$ (5Hz ~ 1MHz)											
Recovery Time	$\leq 100\mu S$ (50% Load change, Minimum load 0.5A)											
Constant Current Operation (CH1, CH2) (continually adjustable)												
Line Regulation	$\leq 2*10^{-3} +3mA$											
Load Regulation	$\leq 2*10^{-3} +3mA$											
Ripple & Noise	$\leq 1mArms$											
Tracking Mode												
Parallel Operation (CV)	Line regulation: $\leq 1*10^{-4} +3mV$ Load regulation: $\leq 1*10^{-4} +3mV$ (rated current $\leq 3A$) $\leq 2*10^{-4} +3mV$ (rated current $>3A$)											
Series Operation (CV)	Line regulation: $\leq 1*10^{-4} +5mV$ Load regulation: $\leq 300mV$											
CH3 Specification												
Line Regulation (CH3)	$\leq 5mV$											
Load Regulation (CH3)	$\leq 15mV$											
Ripple & Noise (CH3)	$\leq 2mV_{rms}$, 5Hz-1MHz											
Current Output (CH3)	GPS-3303D: 1A, GPS-3306D & 3603D: 3A											
Ammeter												
Ammeter	two team 3 digits display ammeter											
Voltmeter	two team 3 digits display ammeter											
Precision	$\pm (0.5\% \times RDG + 2)$											
Display	3 Digit 0.5" LED display; Voltage Meter: Resolution: 100mV, Accuracy: 0.3% of reading Current Meter: Resolution: 10mA, Accuracy: 0.6% of reading											

Standard Accessories

User manual
Power cord

Power

(switch selectable): 220 \pm 10%, 50/60Hz

General Specifications

Dimensions (GPS-3303D/3306D/3603D)

280 x 255 x 145mm / 11 x 10 x 6" (w x d x h) approx.

Mass

7.0kg/15.4lbs approx.

Dimensions (GPS-3303S & 3305S)

260 x 150 x 145mm / 10 x 6 x 6" (w x d x h) approx.

Mass

4.0kg/8.8lbs approx.

Dimensions (GPS-3020S)

280 x 255 x 185mm / 11 x 10 x 7" (w x d x h) approx.

Mass

20.0kg/44.0lbs approx.

EMC

Complies with EN61010-1 and EN61326

Chassis and Terminal

\geq DC 500V / 20M

Operating

environment temperature 0°C-40°C,
relative humidity<80%

Storage

environment temperature 10°C-40°C,
relative humidity<70%

Services

1-year warranty

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