

## Power Supplies

勝特力材料 886-3-5753170  
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# Instek GPS-3030DD GPS SERIES (Digital Type)



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The GPS SERIES have single adjustable outputs.

For versions of these power supplies with analogue displays see the [GPS SERIES \(Analogue Type\)](#).

### Features:

- Light and Compact Design
- 0.01% High Resolution
- Constant Voltage and Constant Current Operation
- Series or Parallel Operation
- Low Ripple and Noise
- Overload and Reverse Polarity Protection
- 3½ Digit 0.5" LED Display Switchable Between Voltage and Current
- Model GPS-3030DD has Separate Displays for Simultaneous Voltage and Current Readings

Model	Output Volts (V)	Output Amps (A)
GPS-1830D	0 ~ 18	0 ~ 3
GPS-1850D	0 ~ 18	0 ~ 5
GPS-3030D	0 ~ 30	0 ~ 3
GPS-3030DD	0 ~ 30	0 ~ 3

## Accessories

### Specifications

#### Constant Voltage Operation

Line Regulation:	$\leq 0.01\% + 3\text{mV}$
Load Regulation:	$\leq 0.01\% + 3\text{mV}$ (rating current $\leq 3\text{A}$ ) $\leq 0.01\% + 5\text{mV}$ (rating current $> 3\text{A}$ )
Ripple and Noise:	$\leq 0.5\text{mVrms}$ 5Hz ~ 1MHz (rating current $\leq 3\text{A}$ ) $\leq 1\text{mVrms}$ 5Hz ~ 1MHz (rating current $> 3\text{A}$ )
Recovery Time:	$\leq 100\mu\text{s}$ (50% load change, minimum load 0.5A)
Temperature Coefficient:	$\leq 300 \text{ ppm}/^\circ\text{C}$
Output Range:	GPS-1830D and GPS-1850D: 0V to 18V, continuously adjustable GPS-3030D and GPS-3030DD: 0V to 30V, continuously adjustable

#### Constant Current Operation

Line Regulation:	$\leq 0.2\% + 3\text{mA}$
Load Regulation:	$\leq 0.2\% + 3\text{mA}$
Ripple Current:	$\leq 3\text{mA}_{\text{rms}}$
Output Range:	GPS-1830D, GPS-3030D and GPS-3030DD: 0A to 3A, continuously adjustable GPS-1850D: 0A to 5A, continuously adjustable (HI/LO range switchable)

#### Meter

Meter Type:	Single $3\frac{1}{2}$ digit 0.5" LED display (Dual $3\frac{1}{2}$ digit 0.39" LED displays on GPS-3030DD)
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#### Insulation

Accuracy:	$\pm(0.5\% \text{ of reading} + 2 \text{ digits})$
Chassis and Terminal:	20M $\Omega$ or above (500V DC)
Chassis and AC Cord:	30M $\Omega$ or above (500V DC)

#### Other Details

Power Source:	AC 100V/120V/220V/240V $\pm 10\%$ , 50/60Hz
Accessories:	Power cord x 1, Instruction manual x 1, Test lead (type GTL-105, type GTL-104 with GPS-1850D) x 1
Dimensions:	128mm (w) x 145mm (h) x 285mm (d)
Weight:	5kg (4kg for GPS-1830D)