



ENGLISH

## Datasheet 123-3564

# RS Pro 90W Digital Bench Power Supply, Single Output, 0 to 30 V dc, 0 to 3 A



The RS Pro IPS-303DD is a linear benchtop power supply. It is a single channel power supply with an output of 90 watts. This model provides protection against reverse polarity while maintaining high regulation alongside low ripple noise. This power supply can operate in series or in parallel. The unit is lightweight and compact which makes it extremely portable, and suitable to accompany you on any job.

### Features:

- 2 x 3 digit LED displays provide a clear and easy to read display.
- This power supply features remote control terminals that can be operated remotely.
- Integrated remote control terminals can be programmed from an external device.
- IPS303-DD power supplies can operate in constant voltage (CV) and constant current (CC) modes.
- You can select continuous or dynamic loads.
- High regulation to 0.01%.
- This model has insulation resistance of 20  $\Omega$  or over.



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### **Applications:**

This bench power supply is general-purpose, all in one solution, making it incredibly versatile and suitable for a range of applications and environments. Suitable applications include:

- Education
- Laboratories (such as science student labs, R&D labs or engineering labs)
- Industry
- Electronic design
- Component testing
- System power modules
- Manufacturing

### **Benefits:**

- This benchtop power supply is accurate and safe. It provides a clean stable outputs with low ripple and low noise, while being compact and lightweight.

### **Supplied with:**

- User manual, power cord and test leads

**ENGLISH****SPECIFICATIONS****CONSTANT VOLTAGE OPERATION**

<b>Regulation</b>	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 $> 3\text{A}$ )
<b>Ripple &amp; Noise</b>	$\leq 0.5\text{mVrms}$ 5Hz ~ 1MHz (rating current $\leq 3\text{A}$ ) $\leq 1\text{mVrms}$ 5Hz ~ 1MHz (rating current $> 3\text{A}$ )
<b>Recovery Time</b>	$\leq 100\mu\text{s}$ ( 50% load change, minimum load 0.5A )
<b>Temp. Coefficient</b>	$\leq 300\text{ ppm}/^\circ\text{C}$
<b>Output Range</b>	0 to rating voltage continuously adjustable

**CONSTANT CURRENT OPERATION**

<b>Regulation</b>	Line regulation $\leq 0.2\% + 3\text{mA}$ Load regulation $\leq 0.2\% + 3\text{mA}$
<b>Ripple Current</b>	$\leq 3\text{mA rms}$
<b>Output Range</b>	0 to rating current continuously adjustable ( Hi / Lo range switchable )

**METER**

<b>Analog</b>	V-meter and I-meter 2.5 class
<b>Digital</b>	Dimensions 50 x 50 mm 3½ digits 0.5" LED display (GPS-1830D/1850D/3030D) 3½ digits 0.39" LED display (GPS-3030DD) Accuracy $\pm( 0.5\% \text{ of rdg} + 2 \text{ digits} )$

**INSULATION**

<b>Chassis and Terminal</b>	20M $\Omega$ or above ( DC 500V )
<b>Chassis and AC Cord</b>	30M $\Omega$ or above ( DC 500V )

**POWER SOURCE**AC 100V/120V/220V/240V $\pm 10\%$ , 50/60Hz**DIMENSIONS**

128(W) x 145(H) x 285(D) mm

**ORDERING INFORMATION**

Model	Output Volts(V)	Output Amps(A)	Weight (kg)
<b>IPS-303DD</b> 90W D.C. Power Supply	0 ~ 30	0 ~ 3	5
<b>IPS-303A</b> 90W D.C. Power Supply	0 ~ 30	0 ~ 3	5

**ACCESSORIES**User manual x 1 , Power cord x 1  
Test lead GTL-105A x 1 (  $\leq 3\text{A}$  ) or GTL-104A x 1 (  $\leq 10\text{A}$  )