

## FEATURES

- Fan speed control circuit minimizes fan noise
- Tracking mode switches
- Ripple and noise levels of <math>< 2\text{mVrms}</math>, 5Hz ~ 1MHz
- Various types of output voltages available
- 3 years warranty

# RS PRO Digital, Bench Power Supply, 180W, 2 Output, 0 → 30V 3A

RS Stock No.: 123-3565



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

From RS PRO, these multiple output linear dc power supplies have been manufactured to industry standards and are a fantastic solution for anyone who carries out a lot of electronics or other powered projects on your bench that requires a reliable source of power at different voltages. This series offers a high quality power supply with 2-4 independent output channels, 180W to 200W output, overload and reverse polarity protection as well as an output ON/OFF switch for safety. Being part of the IPS series, these entry level general purpose power supplies are recognised for their affordability. This range of DC linear power supplies feature a user friendly interface with four "3 digits" LED display, providing an excellent user experience. This range of bench power supplies from RS PRO feature tracking operation and auto series and parallel operation, as well as low ripple and noise ensuring clean and precise test and measurement of various equipment.

## General Specifications

<b>Type</b>	Digital
<b>Mode</b>	Series/parallel
<b>Number of Displays</b>	4
<b>Input Connector</b>	IEC320
<b>Output Connector</b>	Plug-In Terminal Block
<b>Number of Outputs</b>	2
<b>Recovery or Reaction Time</b>	< 100µs (50% load change, minimum load 0.5A)
<b>Number of channel</b>	2
<b>Locking key</b>	No
<b>Insulation</b>	Case to Terminal: $\geq 20 \text{ M}\Omega$ (DC 500 V) Case to AC line: $\geq 30 \text{ M}\Omega$ (DC 500 V)
<b>Protection</b>	Polarity protection
<b>Application</b>	Education, Laboratories, Industry

### Electrical Specifications

<b>Supply Voltage</b>	100VAC to 230VAC
<b>Output Voltage</b>	0V to 30V
<b>Output Current</b>	3A
<b>Power Rating</b>	180W
<b>Load Regulation</b>	Constant voltage mode:-Voltage: $\leq 0.01\% + 3$ mv Constant current mode:- Current: $\leq 0.2\% + 3$ mA
<b>Line Regulation</b>	Constant voltage mode Voltage: $\leq 0.01\% + 3$ mv Constant current mode Current: $\leq 0.2\% + 3$ mA
<b>Ripple(20hz-20M)</b>	Constant voltage mode Voltage: $\leq 1$ mVrms (5Hz to 1MHz) Constant current mode Current: $\leq 3$ mArms
<b>Tracking series voltage</b>	0-60V
<b>Tracking parallel current</b>	0-6A
<b>Tracking Error</b>	$\leq 0.5\% + 10$ mV
<b>Series Regulation</b>	$\leq 0.01\% + 5$ mV

### Mechanical Specifications

<b>Dimension</b>	255mm x145mm x265mm
<b>Length</b>	265mm
<b>Width</b>	255mm
<b>Height</b>	145mm
<b>Weight</b>	Approx. 7kg

### Operation Environment Specifications

<b>Relative humidity</b>	$\leq 80\%$
<b>Minimum Temperature</b>	0°C
<b>Maximum Temperature</b>	40°C
<b>Operation Temperature</b>	0 - 40°C
<b>Storage Temperature</b>	-10°C- 70°C

## Channel 2 Specifications

<b>Output Voltage</b>	0V to 30V
<b>Line Regulation</b>	Constant voltage mode:-Voltage: $\leq 0.01\% + 3 \text{ mV}$ Constant current mode:- Current: $\leq 0.2\% + 3 \text{ mA}$
<b>Load Regulation</b>	Constant voltage mode Voltage: $\leq 0.01\% + 3 \text{ mV}$ Constant current mode Current: $\leq 0.2\% + 3 \text{ mA}$
<b>Ripple &amp; Noise</b>	Constant voltage mode Voltage: $\leq 1 \text{ mVrms}$ (5Hz to 1MHz) Constant current mode Current: $\leq 3 \text{ mArms}$

## Meter Specifications

<b>Type</b>	3 digit, 0.5" LED display
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## Approvals

<b>Compliance/Certifications</b>	RoHS certificate of compliance
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### ORDERING INFORMATION

**IPS-4303** 4-channels, 200W Multiple Output Linear DC Power Supply  
**IPS-3303** 3-channels, 195W Multiple Output Linear DC Power Supply  
**IPS-2303** 2-channels, 180W Multiple Output Linear DC Power Supply

### ACCESSORIES

User manual x 1, Power cord x 1,  
**IPS-4303** : Test lead GTL-104A x 2, GTL-105A x 2 ; European test lead GTL-203A x 2, GTL-204A x 2, GTL-201 x 1  
**IPS-3303** : Test lead GTL-104A x 2, GTL-105A x 1 ; European test lead GTL-203A x 1, GTL-204A x 2, GTL-201 x 1  
**IPS-2303** : Test lead GTL-104A x 2

### OPTIONAL ACCESSORIES

**GPS-001** Voltage/Current Protection Knob

