

FEATURES

- High resolution LED display
- Program Accuracy - V: \pm (0.5% of reading+2digits)
- USB Interface
- Intelligent fan for temperature control which effectively reduces noise

RS PRO Programmable Linear, Bench Power Supply, 220W, 3 Output, 0 \rightarrow 32V 3.2A

RS Stock No.: 123-6467



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, comes a range of high quality and great value programmable linear bench power supplies with LED display screens. Manufactured to industry standards these feature-packed bench power supplies are an essential solution for anyone who carries out a lot of electronics or other powered projects on your bench and needs a reliable source of power at different voltages.

These DC power supplies have three independent outputs (two sets of adjustable voltage and a fixed set of selectable voltages) as well as three available operation modes - independent, series, parallel. Series and parallel functions allow two channels to be easily combined into one output with more power output ability, doubling the supplied voltage or current. Each of the 3 channel's outputs can be turned on/off independently or all 3 turned all-on/all-off simultaneously.

General Specifications

Type	Programmable Linear Power Supply
Mode	Series, parallel, independent
Number of Displays	2
Input Connector	IEC 320
Output Connector	Binding Post terminal
Number of Outputs	3
Recovery or Reaction Time	< 50 μ s (50% load change, minimum load 0.5A)
Resolution	Voltage: 10 mV / Current: 1 mA
Number of channel	3
Locking key	Yes
Memory Save/Recall	5 sets
Insulation	Case to Terminal: \geq 20 M Ω (DC 500 V) Case to AC line: \geq 30 M Ω (DC 500 V)
Interface	USB Device
Application	Debugging in R&D, Production /Automatic Test, Quality Control and Test, Teaching/ Education

Electrical Specifications

Supply Voltage	230VAC
Output Voltage	0V to 32V
Output Current	3.2A
Power Rating	220W
Load Regulation	Constant voltage mode:-Voltage: $\leq 0.01\% + 3 \text{ mV}$ Constant current mode:- Current: $\leq 0.2\% + 3 \text{ mA}$
Line Regulation	Constant voltage mode Voltage: $\leq 0.01\% + 3 \text{ mV}$ Constant current mode Current: $\leq 0.2\% + 3 \text{ mA}$
Ripple(20hz-20M)	Constant voltage mode Voltage: $\leq 1 \text{ mVrms}$ Constant current mode Current: $\leq 3 \text{ mArms}$
Series Regulation	Line: $\leq 0.01\% + 5 \text{ mV}$ Load: $\leq 300 \text{ mV}$
Parallel regulation	Line : $0.01\% + 3 \text{ mV}$ Load : $0.01\% + 3 \text{ mV}$

Mechanical Specifications

Dimension	275mm x235mm x126mm
Length	126mm
Width	275mm
Height	235mm
Weight	7.5 kg

Operation Environment Specifications

Altitude	$\leq 2000 \text{ m}$
Relative humidity	$\leq 80\%$
Minimum Temperature	0°C
Maximum Temperature	40°C
Operation Temperature	0°C - 40°C
Storage Temperature	-10°C - 70°C

Channel 3 Specifications

Output Voltage	(2.5/3.3/5V) $\pm 8\%$
Line Regulation	$\leq 0.01\% + 3\text{mV}$
Load Regulation	$\leq 0.01\% + 3\text{mV}$

Meter Specifications

Type	32 V full scale 4digits 3.2A full scale 3 digits LED display
Voltage Resolution	10mV
Current Resolution	10mA
Setting Accuracy	Voltage $\pm(0.5\%$ of reading +2 digits); Current $\pm(0.5\%$ of reading +2digits)
Read back Accuracy	Voltage $\pm(0.5\%$ of reading +2 digits); Current $\pm(0.5\%$ of reading +2digits)

Approvals

Compliance/Certifications	RoHS certificate of compliance
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Design Features

- **High-resolution and high-precision output**

High precision adjustability of as low as 10 mV & 10 mA steps. User's DUT can be monitored and analyzed under small changes in voltage and current.

- **Series/parallel/independent mode functions**

Series and parallel functions allow two channels to be easily combined into one output with more power output ability, doubling the supplied voltage or current. Each of the 3 channel's outputs can be turned on/off independently or all 3 turned all-on/all-off simultaneously.



