

## FEATURES

- Output ON/OFF Delay Function
- Adjustable Slew Rate for Voltage and Current
- Built-in USB and RS-232/485 Interface  
Optional LAN+GPIB
- Remote Sensing Function
- External Analog Control and Monitor Function

## RS PRO Digital, Bench Power Supply, 100W, 1 Output, 0 → 50V 10A

RS Stock No.: 180-4806



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

Introducing the RS PRO RSFR-100 Series Fan less Bench Power Supply. This compact and high-performance D/C power supply allows users to work without additional noise being created by the power supply due to the fan less design. The fan less design also means that dust or debris will not get sucked in, helping create a longer life cycle in comparison to other power supplies with fans. This bench power supply is a high-quality, versatile piece of equipment that can be used for a variety of applications and can be bought as a non-calibrated or calibrated (RS Calibration or UKAS Calibration) machine.

## General Specifications

<b>Type</b>	Digital
<b>Number of Displays</b>	1
<b>Input Connector</b>	RS232, RS485, USB
<b>Output Connector</b>	RS232, RS485, USB
<b>Accuracy</b>	Programming Accuracy :-Voltage: $\leq 0.1\% + 40 \text{ mV}$ / Current: $\leq 0.2\% + 20 \text{ mA}$ Measurement Accuracy :-Voltage: $\leq 0.1\% + 40 \text{ mV}$ / Current: $\leq 0.2\% + 20 \text{ mA}$
<b>Number of Outputs</b>	1
<b>Read Back Temp. Coefficient</b>	Voltage: $\leq 100 \text{ ppm}/^\circ\text{C}$ / Current: $\leq 200 \text{ ppm}/^\circ\text{C}$
<b>Recovery or Reaction Time</b>	Rise Time(Rated load) – 50mS Fall time(Rated load) -100mS Fall time(No load) -500mS Transient response time -1.5mS
<b>Resolution</b>	Programming resolution :-Voltage: 2mV / Current: 1mA Measurement resolution :-Voltage: 2mV / Current: 1mA
<b>Protection</b>	OVP, OCP, AC FAIL and OTP,UVL
<b>Interface</b>	LAN/GPIB, RS-232/485, USB
<b>Application</b>	General laboratory, Education, Industry, Research, Production, Workshops

### Electrical Specifications

<b>Supply Voltage</b>	85VAC to 265VAC
<b>Output Voltage</b>	0V to 50V
<b>Output Current</b>	10A
<b>Power Rating</b>	100W
<b>Load Regulation</b>	Constant voltage mode Voltage:10mv Constant current mode:- Current: 10mA
<b>Line Regulation</b>	Constant voltage mode Voltage: 3mv Constant current mode:- Current: 8mA
<b>Ripple(20hz-20M)</b>	Voltage: $\leq 4\text{mVrms}$ / Current: $\leq 10\text{mArms}$

### Mechanical Specifications

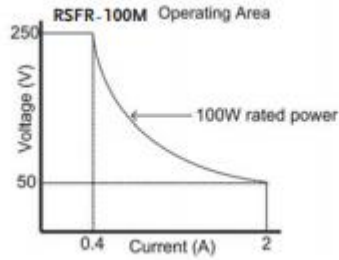
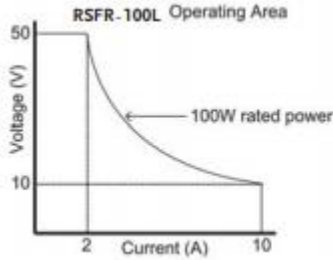
<b>Dimension</b>	70mm x124mm x300mm
<b>Length</b>	300mm
<b>Width</b>	70mm
<b>Height</b>	124mm
<b>Weight</b>	2.5kg

### Operation Environment Specifications

<b>Relative humidity</b>	20% to 80%
<b>Minimum Temperature</b>	0°C
<b>Maximum Temperature</b>	40°C
<b>Operation Temperature</b>	0 - 40°C
<b>Storage Temperature</b>	-20°C - 70°C

### Approvals

<b>Compliance/Certifications</b>	RoHS certificate of compliance
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Model	RSFR-100L	RSFR-100M
Output Channel	1	1
Output Voltage	0– 50 V	0– 250 V
Output Current	0– 10 A	0– 2 A
Rated Power	100 W	100 W

### ORDERING INFORMATION

**RSFR-100L** Fanless Multi-Range D.C. Power Supply  
**RSFR-100M** Fanless Multi-Range D.C. Power Supply

### ACCESSORIES

CD (User Manual, Programming manual) x 1, Power cord, GTL-134 test lead, Accessory Packages, GTL-104A test lead (for RSFR-100L only), GTL-105A test lead (for RSFR-100M only)

### OPTIONAL ACCESSORIES

GTL-258 GPIB Cable, 2000mm  
 PSU-232 RS-232 Cable with DB9 Connector Kit  
 PSU-485 RS-485 Cable with DB9 Connector Kit  
 GTL-246 USB Cable (USB 2.0 Type A-TypeB Cable)  
 GRA-431-J-100/200 Rack mount adapter (JIS) with AC 100V/200V  
 GRA-431-E-100/200 Rack mount adapter (EIA) with AC 100V/200V  
 PFR-GL LAN+GPIB interface

