

Features

- Independent Isolated Output
- 2.4 Inch TFT-LCD Display
- CC/CV operation mode
- Remote Sensing Function
- Recovery Time: $\leq 100 \mu s$ (50 % load change, minimum load 0.5 A)
- Setting Resolution: 1 mV / 0.1 mA, Readback Resolution: 0.1 mV / 10 μA
- Output ON/OFF
- OVP, OCP, OTP Protection
- Analog Control (Remote I/O) for Output ON / OFF
- Key Lock Function
- Temperature Controlled Fan Design
- Supports Rack

RS PRO Single Output Linear D.C. Power Supply

RS Stock No.: 0760732,0760733,0760734,
0760735,0760736,0760737,0760738,0760739



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

The RS PRO GPE-1000 series linear DC power supplies offer two models: RSPE-1205 (20 V / 5 A / 100 W) and RSPE-1323 (32 V / 3 A / 96 W), ideal for R&D, education, and electronics manufacturing. With high-precision settings (1 mV / 0.1 mA) and readback resolution (0.1 mV / 10 μ A), they ensure accurate and reliable measurements.

These units support constant voltage (CV) and constant current (CC) modes, and feature remote sensing for voltage drop compensation. A master-slave configuration allows two identical GPE units to be connected in series or parallel to expand output range. Safety is enhanced with built-in OVP, OCP, OTP, and reverse polarity protection. Additional features include output On/Off control and a panel lock to prevent accidental changes.

A 2.4-inch TFT-LCD provides clear readouts, while the temperature-controlled fan ensures quiet and stable operation.

General Specifications

Display	2.4" TFT Graphic LCD
Power Source	AC (100 V, 120 V, 220 V, 240 V) $\pm$ 10 %
Power Line Frequency	50 Hz or 60 Hz
Power Consumption	Max. 300VA
Dimensions	107 mm x 124 mm x 313 mm, (W x H x D)
Weight	Approx. 5.2 kg

Electrical Specifications

OUTPUT RATINGS		
Independent		0 V to 32 V, 0 A to 3 A
Series (2 units with series function)		0 V to 64 V, 0 A to 3 A
Parallel (2 units with parallel function)		0 V to 32 V, 0 A to 6 A
CONSTANT VOLTAGE OPERATION		
Line Regulation		$\leq 0.01 \% + 3 \text{ mV}$
Load Regulation		$\leq 0.01 \% + 3 \text{ mV}$ $\leq 0.01 \% + 5 \text{ mV} (\geq 3 \text{ A})$
Ripple & Noise		$\leq 0.5 \text{ mVrms}$ (5 Hz to 1 MHz)
Setting Range		0 V to 33.6 V
Setting/Readback Accuracy		$\pm (0.03 \% \text{ of reading} + 10 \text{ mV})$
Setting/Readback Resolution		Programming 5 digits, Readback 6 digits
Maximum Remote Sensing Compensation Voltage		0.5 V
Recovery Time		$\leq 100 \mu\text{s}$ (50 % load change, minimum load 0.5 A)
Temperature Coefficient		$\leq 300 \text{ ppm}/^\circ\text{C}$
CONSTANT CURRENT OPERATION		
Line Regulation		$\leq 0.2 \% + 3 \text{ mA}$
Load Regulation		$\leq 0.2 \% + 3 \text{ mA}$
Ripple & Noise		$\leq 2 \text{ mArms}$
Setting Range		0 A to 3.15 A
Setting/Readback Accuracy		$\pm (0.3 \% \text{ of reading} + 10 \text{ mA})$
Setting/Readback Resolution		Programming 5 digits, Readback 6 digits
Temperature Coefficient		$\leq 300 \text{ ppm}/^\circ\text{C}$
PROTECTION		
OVP	Range	OFF, ON (1.8 V to 35.2 V)
	Resolution	100 mV
	Accuracy	$\leq \pm 100 \text{ mV}$
OCP	Range	OFF, ON (0.15 A to 3.3 A)
	Resolution	10 mA
	Accuracy	$\leq \pm 20 \text{ mA}$
DISPLAY		
Display	LCD	2.4-inch TFT LCD
INSULATION		
	Chassis and Terminal	20 M Ω or above (DC 500 V)
	Chassis and AC Cord	30 M Ω or above (DC 500 V)
ENVIRONMENT		
Operation Environment	Indoor use, Altitude: $\leq 2000 \text{ m}$ Ambient temperature: 0°C to 40°C ; Relative humidity: $\leq 80 \%$ Installation category: II ; Pollution degree: 2	
Storage Environment	Ambient temperature: -10°C to 70°C Relative humidity: $\leq 70 \%$	

Approvals

Directive: EMC; LVD; WEEE; RoHS

The product is in conformity with the following standards or other normative documents:

© EMC	
EN 61326-1 :	Electrical equipment for measurement, control and laboratory use -- EMC requirements
Conducted & Radiated Emission EN 55011 / EN 55032	Electrical Fast Transients EN 61000-4-4
Current Harmonics EN 61000-3-2 / EN 61000-3-12	Surge Immunity EN 61000-4-5
Voltage Fluctuations EN 61000-3-3 / EN 61000-3-11	Conducted Susceptibility EN 61000-4-6
Electrostatic Discharge EN 61000-4-2	Power Frequency Magnetic Field EN 61000-4-8
Radiated Immunity EN 61000-4-3	Voltage Dip/ Interruption EN 61000-4-11 / EN 61000-4-34
© Safety	
EN 61010-1 :	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements

Similar Products

Stock No.	Brand	Product Name	Attribute 1	Attribute 2	Attribute 3
	RS PRO	RSPE-1205			

Order Information

RSPE-1323 1 Channel 96 W Linear DC Power Supply

Included Accessories

Power cord x 2 (UK & VDE Types)

RSPE-1323 Test lead GTL-104 x 1

Mechanical Specifications

