

RS-4 Precision, Constant Current Lamp Power Supply



The Gamma Scientific RS-4 power supply is a precise, current-regulated power supply intended for use in light measurement applications. Most often paired with calibrated standard lamps or LEDs, this power supply maintains output stability over long time periods, and the entire unit is resistant to changes in the environment. This allows any calibration established in a test lab to be conserved when transporting to other locations.

A ramping function maximizes the life of the light source by gradually changing current output from 0% to 100% over 30 seconds. This function is accessible on the front panel via an enable button or can be triggered remotely using the TTL logic function.

Precision Calibration Solutions

Robust, Reliable and Traceable

Features

- Ramp function maximizes light source lifetime by ramping from 0 to 100% over 30 seconds
- Remote power-up via TTL trigger feature
- Long-term current accuracy > 99.95%
- Temperature drift < 50 ppm per °C
- Universal power input

Applications

- Driver for calibration standard lamps
- Projection light source controller
- SSL and LED operation
- Other test and calibration applications

In addition to our exceptional technical and functional capabilities, Gamma Scientific is ISO/IEC 17025 accredited by NVLAP (NVLAP lab code 200823-0).

RS-4 Power Supply	
Operating Mode	Constant Current
Measurement Technique	Poggendorf Comparison Method
Meter	Null type (zero center)
Output Current	10A maximum
Voltage Compliance	15 V maximum
Current Accuracy, Long Term	> 99.95%
Set Accuracy Error	> 0.02%
Temperature Drift	< 50 ppm per °C
Temperature Range	15 to 35°C
Thermal Drift After 8 min. Warmup	< 0.01%
Regulation	± 0.02% change for line voltage change of 10V
Current Ramp On/Off Time	< 30 seconds
Power	220W maximum
Line Voltage	100 to 240 VAC 50/60 Hz
Relative Humidity	Up to 99% (non-condensing)
Dimensions	254 mm (10 in) L x 216 mm (8.5 in) W x 89 mm (3.5 in) H 2 kg (4.4 lbs)

RS-4 Power Supply Product Selection Guide	
RS-4-1-0833	Precision Lamp constant current power supply, 12V, 10W, 0.833A
RS-4-1-0850	Precision Lamp constant current power supply, 11.76V, 10W, 0.850A
RS-4-1-1667	Precision Lamp constant current power supply, 12V, 20W, 1.667A
RS-4-1-2917	Precision Lamp constant current power supply, 12V, 35W, 2.917A
RS-4-1-4167	Precision Lamp constant current power supply, 12V, 50W, 4.167A
RS-4-1-6250	Precision Lamp constant current power supply, 12V, 75W, 6.250A
RS-4-2-8333	Precision Lamp constant current power supply, 12V, 100W, 8.333A
RS-4-2-8500	Precision Lamp constant current power supply, 11.76V, 100W, 8.500A
RS-4-4-6600	Precision Lamp constant current power supply, 30.3V, 200W, 6.600A

Specifications are subject to change without notice.