

FEATURES

- CEC Level VI
- IEC320 C14
- LED status indication
- MTBF: >30,000 hours
- Active PFC function

RS PRO 24V dc Power Supply, 12.5A, C14 Connector

RS Stock No.: 819-3989



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

This range of RS PRO desktop power supplies are switch mode single output desktop adaptors with over voltage and over current protection. They also feature an active PFC function. These desktop power supplies are very slim and compact for areas with limited space.

Versions Available:

[819-3986](#) - 12V / 250W

[819-3989](#) - 24V / 300W

General Specifications

Input Connector	IEC320-C14
Input Plug Type	C14
Output Connection Type	4-Way Connector
Number of Outputs	1
Energy Efficiency Level	V
MTBF	>30,000 hours
Power Indicator	LED Indicator for power on
Cable Length	1000mm
Application	Laptops, netbooks and notebook computers

Electrical Specifications

Input Specifications	
Rated Input Voltage	100 to 240V ac
Full Input Voltage Range	100 to 240V ac
Rated Frequency	50/60Hz
Full Frequency Range	47/63Hz
Efficiency	meets CEC Level V, VI
Input Current (RMS Max.)	≤4A
Inrush Current	≤150A at cold start

Output Specification	
Output Voltage Rating	24V dc
Output Current Range	0A to 12.5A
Rated output Power	300W
Ripple & Noise (max.)	1.5%
Line Regulation	±1.0%
Load Regulation	±5.0%
Voltage Tolerance	±10%
Setup, Rise Time	≤3s
Hold Up Time (Typ.)	≥8.3mS
Overload protection	Auto recovery
Over Voltage Protection	Latch off
Over Temperature Protection	Latch off
Short Circuit Protection	Auto recovery

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	197mm x 102mm x 51mm
Overall Length	197mm
Overall Depth	51mm
Overall Width	102mm
Weight	1.7kg

Operation Environment Specifications

Operating Humidity	5% to 95% RH non-condensing
Operating Temperature Range	0°C to 40°C
Storage Temperature Range	-20°C to 85°C

Approvals

Safety Standard	UL60950-1, EN60950-1, IEC60950-1,
EMC Emission	Compliance to EN/IEC 60950, EUP II, RoHS Compliant



Electrical Specifications

RS STOCK NO.	MODEL NO.	MAX OUTPUT POWER (W)	VOLTAGE (Vo)	MIN. LOAD (Lo)	MAX. LOAD (Lo)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
819-3986	EA13001C(D03)	250W	12V	0	20.85A	± 5%	± 1%	1.5%
819-3989	EA13001N(D02)	300W	24V	0	12.5A	± 5%	± 1%	1.5%

NOTE:

- 1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.
- 2 : Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
- 3 : Max. Power (W) ≥Vo x Io

