

FEATURES

- Auto recovery
- Short circuit, overload, overvoltage protection
- LED status indication
- Energy saving compact design
- IEC320 C8 input socket

RS PRO 12V dc Power Supply, 2.5A, C8 Connector

RS Stock No.: 731-6037



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

Energy saving with a compact design, this adaptor power supply is ErP level V compliant. With a 20W to 150W single output, a 1.2 meter lead and 4 interchangeable DC plugs this adaptor is ideal for numerous electronic and business power needs.

General Specifications

Input Connector	IEC320-C8
Input Plug Type	C8
Output Connection Type	1.75 x 4.75 x 11 mm Centre Positive Female Coaxial Plug, 2.1 x 5.5 x 10.5 mm Centre Positive Female Coaxial Plug, 2.5 x 5.5 x 12.5 mm Centre Positive Female Coaxial Plug, 3 x 6.3 x 12 mm Centre Positive Female Coaxial Plug
Number of Outputs	1
Energy Efficiency Level	V
MTBF	>30,000 hours
Power Indicator	LED Indicator for power on
Cable Length	1200mm
Application	Speakers, Chargers, CCTV Cameras, Lamps and Lights

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	84%
Input Current (RMS Max.)	0.5A at 230VAC
Inrush Current	60A at 230VAC

Output Specification	
Output Voltage Rating	12V dc
Output Current Range	2.5A
Rated output Power	30W
Ripple & Noise (max.)	1.5%
Line Regulation	±1.0%
Load Regulation	±5.0%
Setup, Rise Time	≤3s
Hold Up Time (Typ.)	≥8.3mS
Overload protection	Auto recovery
Over Voltage Protection	Auto recovery
Over Temperature Protection	Auto recovery
Short Circuit Protection	Auto recovery

Mechanical Specifications

Housing Material	Fully Enclosed Plastic Case
Overall Dimensions	98mm x 45mm x 31mm
Overall Length	98mm
Overall Depth	31mm
Overall Width	45mm
Weight	220g

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, CE
EMC Emission	Compliance to IEC 6100-3-2 class D



Electrical Specifications

RS STOCK NO.	MODEL OUTPUT	VOLTAGE (Vo)	MAX. LOAD (Lo)	POWER (Watts)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
731-6030	EA1030A2(M03)	6V	3.5A	21W	+/- 5%	+/- 1%	2%
731-6028	EA10302(M02)	9V	3A	27W	+/- 5%	+/- 1%	2%
731-6037	EA10302(M03)	12V	2.5A	30W	+/- 5%	+/- 1%	1.5%
731-6034	EA1030C2(M01)	15V	2A	30W	+/- 5%	+/- 1%	1.5%
731-6059	EA1030D2(M01)	24V	1.25A	30W	+/- 5%	+/- 1%	1%

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 $\pm 10\%$ of input voltage from nominal line at rated load.

3: Max. Output Power (W) $\geq V_o \times I_o$

4.75 / 1.75 / 11.00mm



5.5 / 2.1 / 10.50mm



5.5 / 2.5 / 12.5mm



6.3 / 3.0 / 12.00mm



