

Plug Top Power Adaptors



ESA24 Series Up to 24 Watts Single DC Output

www.powersolve.co.uk

Features

- Meets CEC Requirements
- Universal AC Input
- Conforms to RoHS
- Interchangeable AC Plugs for China, USA, EU, UK, Japan, Australia & Korea
- EMC to EN55022'B', CISPR22 'B' & FCC 'B'
- ITE & Medical Safety Approvals



Electrical Specification

INPUT

Input Voltage	90-264VAC
Input Frequency	47-63Hz
Safety Ground Leakage Current	10uA max, no Y capacitors
No Load Input Power	0.5W max

OUTPUT

Output Voltage & Current	See table
Output Power	Up to 24 Watts see table for models
Output Ripple & Noise	100 to 200mV pk-pk max (depending on output voltage)
Transient Response Time	4mS max full load to half load 100VAC input
Line Regulation	1% max
Load Regulation	±5% max
Output Protection	Overcurrent & short circuit

ENVIRONMENTAL

Operating Temperature	0 to 40°C, ambient
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95% max

GENERAL

Efficiency	>85% average
MTBF	>50,000 hours @ 25°C calculated to MIL-HDBK-217F

SAFETY

Withstand Voltage	Primary to Secondary 4242V DC, Primary to Ground 2121V DC
Isolation Resistance	500Mohm Min
Safety Approvals	TUV EN60950 & EN60601-1, cCSAus60950-1-03 and 606.1-M90 medical approval
EMI/EMC	CISPR22 'B', FCC Part 15 'B', EN55022 'B'

MECHANICAL

UL94V-1 plastic enclosure, dimensions 88 x 48 x 29mm, output cable 1.2 metre

Output Voltage & Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	MAX OUTPUT POWER
ESA24-3V3-XX	3.3V DC	2.50A	8.25 Watts
ESA24-05-XX	5V DC	2.50A	12.50 Watts
ESA24-09-XX	9V DC	2.20A	19.80 Watts
ESA24-12-XX	12V DC	2.00A	24 Watts
ESA24-15-XX	15V DC	1.60A	24 Watts
ESA24-18-XX	18V DC	1.33A	24 Watts
ESA24-24-XX	24V DC	1.00A	24 Watts

NOTE:

(XX) in part number denotes output connector type. Standard stock items have 2.1 x 5.5 x 11mm centre positive barrel connector. Therefore part number would be ESA24-3V3-01.

Other connectors are available which would be a different 2 digit number. Other output voltages available in the range of 3.0V to 24V. consult sales office for details.

AC Connectors:

Unless specified standard stock items will be shipped with UK, EU, US & Australian connectors, other connectors are available, consult sales office for details.