

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.