

Desk Top Power Supplies

POWER
SOLVE

www.powersolve.co.uk

PSE16 Series

15 Watts Switch Mode

Universal AC Input

The PSE16 Series is a range of plastic fully sealed, splash proof, desk top power adaptors. All units are UL94V-1 compliant and carry full UL, cUL (UL60950) and TUV/GS (EN60950) safety approvals. All models are 100% tested and burned in.

Features

- Single output
- Optional output connectors
- Optional inlet connectors
- Meets Energy Star
- Wide input voltage range 90 to 264 VAC
- Input surge current protection
- Overcurrent protection



Electrical Specification

INPUT

Input voltage	90-264 VAC
Input frequency	47-63 Hz
Input current	0.4A (rms) for 115 VAC, 0.26A (rms) for 230 VAC
Safety ground leakage current	0.75mA max @ 240 VAC 50Hz
Input power no load	<0.5 Watts

OUTPUT

Output voltage	See rating chart
Output current	See rating chart
Output power range	0 to 15 watts
Ripple	1% Typical 2% Max
Overcurrent protection	All outputs protected to short circuit condition
Temperature coefficient	All outputs $\pm 0.04\%$ / °C maximum
Transient response	4mS full load to half load, 100 VAC Input

ENVIRONMENTAL

Operating temperature	0°C to +70°C, derate linearly above 40°C to 50% @ 70°C
Storage temperature	-40°C to +85°C
Relative humidity	5% to 95% non-condensing

GENERAL

Efficiency	75% Typical
Hold-up time	5 msec minimum
Line regulation	$\pm 0.5\%$ maximum at full load
Insulation resistance	50 Mohm minimum from output to ground
Withstand voltage	3000 VAC from input to output 1500 VAC from output to ground
MTBF	100,000 hours minimum at full load at 25°C ambient
EMI requirements	Meets conduction limits of (a) FCC PART 15 CLASS B (b) CISPR CLASS B
Safety Approvals	UL/cUL60950, TUV/GS (EN60950)

Desk Top Power Supplies

Output Voltage/Current Rating Chart - PSE15 Series

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	MAX OUTPUT POWER
PSE16X-3V3-YY	3.3VDC	2.5 Amp	12 Watts
PSE16X-05-YY	5VDC	2.5 Amp	12 Watts
PSE16X-09-YY	9VDC	1.66 Amp	15 Watts
PSE16X-12-YY	12VDC	1.25 Amp	15 Watts
PSE16X-16-YY	16VDC	0.94 Amp	15 Watts
PSE16X-18-YY	18VDC	0.83 Amp	15 Watts
PSE16X-24-YY	24VDC	0.63 Amp	15 Watts
PSE16X-48-YY	48VDC	0.31 Amp	15 Watts

Models above are standard ex-stock items with 3 pin IEC 320 inlet connector (Fig 1). Output Lead is 1.8 Metre long fitted with a 2.1 x 5.5 x 11mm Female Barrel Connector, wired centre positive.

Options: Alternative input connectors as per drawings below. Where X is shown on part number substitute (A, B, C or D). A for 3 pin input, B for 2 pin input (fig 2), C for alternative 3 pin input (fig 3) and D for lead in lead out version (fig 4). i.e. PSE16A-05YY

YY on the part number indicates the DC output connector. 01 for 2.1mm, 02 for 2.5mm. Alternative output connectors available, consult sales office with your requirements. i.e. PSE16A-05-01

Any output voltage is available within the range of 3V to 48V DC

Some of these options may be subject to minimum order quantities.

MECHANICAL DIMENSIONS mm

