

Desk Top Power Supplies



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PSE60 Series

60 Watts Switch Mode

Universal AC Input

The PSE60 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

- Optional output connectors
- 100% burn-in
- Wide input voltage 90 to 264 VAC
- Input surge current protection
- Overvoltage protection
- Overcurrent protection

Electrical Specification

INPUT

Input voltage	90 to 264 VAC
Input frequency	47 to 63 Hz
Input current	1.6A max at low line
Safety ground leakage current	0.75mA max @ 240 VAC 50Hz

OUTPUT

Output voltage	See Rating Chart
Output current	See Rating Chart
Output power range	0-60 watts
Ripple	1% peak to peak maximum
Overcurrent protection	All outputs protected to short circuit conditions
Temperature coefficient	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response	4mS full load to half load, 100VAC Input

ENVIRONMENTAL

Operation temperature	0°C to +70°C
Derating	Derated from 100% at +40°C linearly to 50% at +70°C
Storage temperature	-40°C to +85°C
Relative Humidity	5% to 95% non-condensing

GENERAL

Efficiency	75% minimum @ 230V AC input & full load
Hold-up time	16 m/s 110VAC input Full Load Output
Line regulation	$\pm 0.5\%$ maximum at full load
Inrush current	15 amps @ 115 VAC, or 30 amps @ 230 VAC at 25°C cold start
Withstand voltage	3000 VAC from input to output, 1500 VAC from input to ground, 500 VAC from output to ground
Insulation resistance	50 Mohm minimum from output to ground
Mean time between failure	100,000 hours minimum at full load at 25°C ambient
EMI requirements	Meets FCC Part 15'B', CISPR-22 'B'
Safety approvals	UL/cUL60950, TUV/GS (EN60950)

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Output Voltage/Current Rating Chart - PSE60 Series

MODEL NO	OUTPUT	TOTAL REGULATION	MAXIMUM POWER
PSE60-105	5V 10A	5%	50 Watts
PSE60-209	9V 6.5A	5%	58.5 Watts
PSE60-312	12V 5A	5%	60 Watts
PSE60-516	16V 3.75A	5%	60 Watts
PSE60-624	24V 2.5A	5%	60 Watts
PSE60-948	48V 1.25A	5%	60 Watts

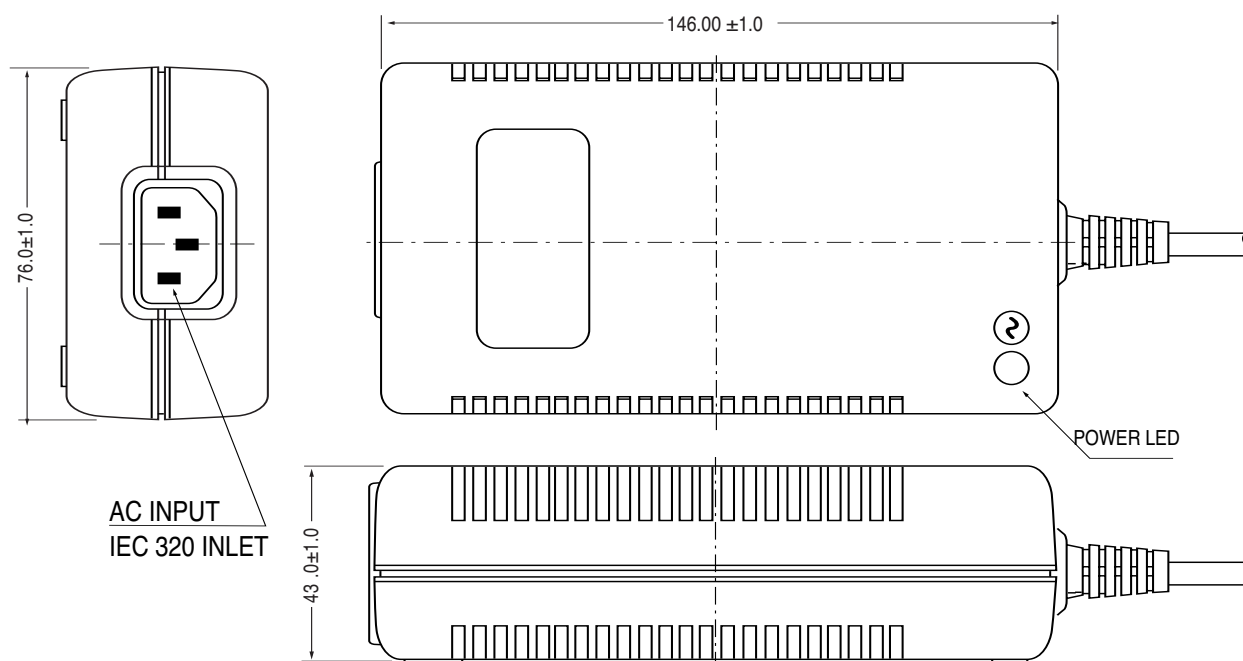
Standard models fitted with 1.8 Metre output lead fitted with 2.5 x 5.5 x 11mm Female Barrel Connector, wired centre positive.

Options: Alternative output connectors available, consult sales office with your requirements.

Any output voltage available within the range of 5V to 50V DC.

Some of these may be subject to minimum order quantities.

MECHANICAL DIMENSIONS mm



NOTE:

1. Optional output connectors: see page Appendix