

60 Watts UNIVERSAL INPUT SWITCH MODE

DESKTOP POWER SUPPLIES

PSE60 SERIES



DESCRIPTION

The PSE60 series of AC/DC switching power supplies offer 60 watts of continuous output power. All models meet CISPR class B and FCC class B emission limits, and are designed to comply with UL, CSA, VDE and IEC requirements.

FEATURES

- Optional output connectors
- 100% burn-in
- Wide input voltage 85 to 264 VAC
- Input surge current protection
- Overvoltage protection
- Overcurrent protection

SAFETY APPROVALS

- UL, cUL
- CE
- TUV

ELECTRICAL SPECIFICATIONS

INPUT

Input voltage	85 to 264 VAC
Input frequency	47 to 440 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
Overvoltage protection	Provided on output #1 only; set at 112-132% of its nominal output voltage
Overcurrent protection	All outputs protected to short circuit conditions
Temperature coefficient	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum
Transient response	Maximum excursion of 4% or better on all models recovering to 1% of final value within 500 μs after a 25% step load change

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	65% minimum at 60W output
Hold-up time	5 msec minimum
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 conduction limits of (a) FCC 20780 CLASS B (b) CISPR CLASS B
Safety requirements	Meets or exceeds: (a) UL 1950 (b) CSA C22.2 NO.234 (c) IEC 950

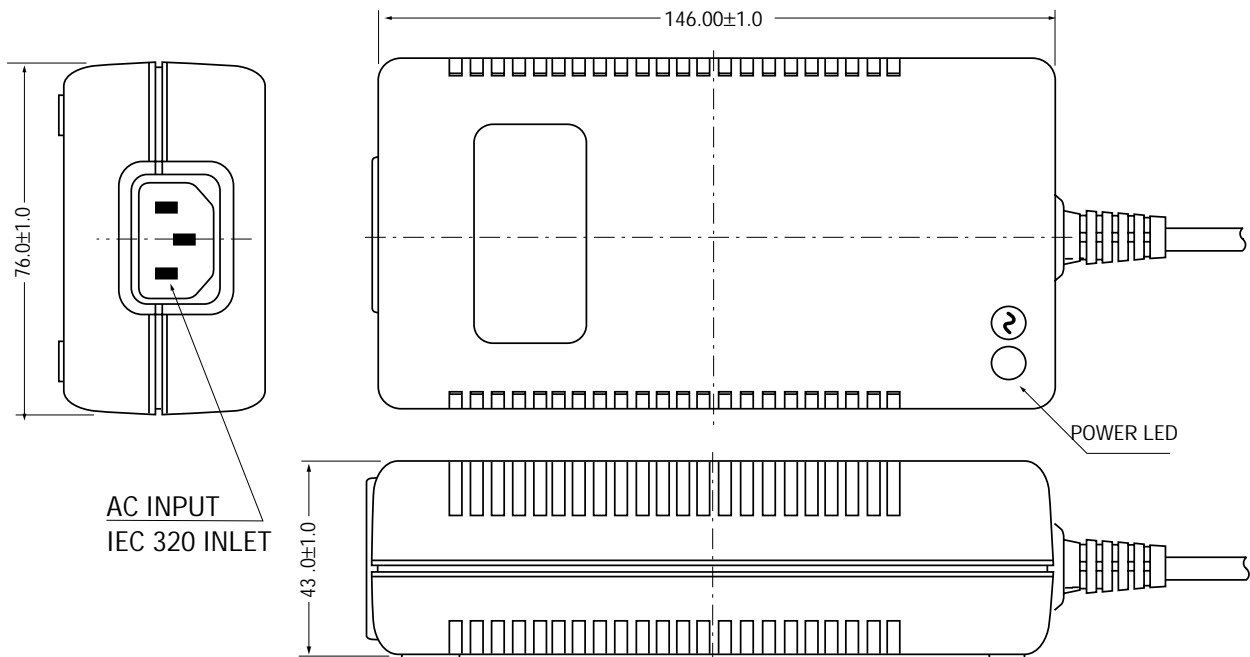
OUTPUT VOLTAGE/CURRENT RATING CHART - PSE60 SERIES

MODEL NO	OUTPUT VOLTAGE	OUTPUT CURRENT	MAXIMUM OUTPUT POWER
PSE60-1XX	5-6 VDC	10.0-8.30A	50W
PSE60-11XX	6-9 VDC	9.16-6.11A	55W
PSE60-2XX	9-11 VDC	6.50-5.31A	58.5W
PSE60-3XX	11-13VDC	5.45-4.61A	60W
PSE60-4XX	13-16 VDC	4.61-3.75A	60W
PSE60-5XX	16-21 VDC	3.75-2.85A	60W
PSE60-6XX	21-27 VDC	2.85-2.22A	60W
PSE60-7XX	27-33 VDC	2.22-1.81A	60W
PSE60-8XX	33-40 VDC	1.81-1.50A	60W
PSE60-9XX	40-50 VDC	1.50-1.20A	60W

Note: XX = Output voltage required e.g. 5V part number = PSE60-105

DRAWINGS

MECHANICAL DIMENSIONS MM



NOTE:

1. Optional output connectors: see page Appendix