

Desk Top Power Supplies



www.powersolve.co.uk

PSE60C Series

60 Watt Switch Mode

Universal AC Input

The PSE60C 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, cUL and EN60950 requirements.



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
Overvoltage protection	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

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	83% typical
Hold-up time	16 m/s low line
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	4242V DC from input to output, 2121DC from input to ground, 500V DC 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 approvals	ul, cUL60950-1, ITS/GS(EN60950)

Powersolve Electronics Ltd. Units 8A, Arnhem Road, Newbury, RG14 5RU. England

Tel: 01635 521858 Fax: 01635 523771 Email: sales@powersolve.co.uk

Desk Top Power Supplies



www.powersolve.co.uk

Output Voltage/Current Rating Chart - PSE60C Series

MODEL NO	OUTPUT VOLTAGE	OUTPUT CURRENT POWER	MAXIMUM OUTPUT
PSE60C-05	5VDC	4.00A	20W
PSE60C-09	9VDC	4.44A	40W
PSE60C-12	12VDC	4.17A	50W
PSE60C-15	15VDC	3.67A	55W
PSE60C-18	18VDC	3.33A	60W
PSE60C-19	19VDC	3.16A	60W
PSE60C-24	24VDC	2.5A	60W
PSE60C-48	48VDC	1.25A	60W

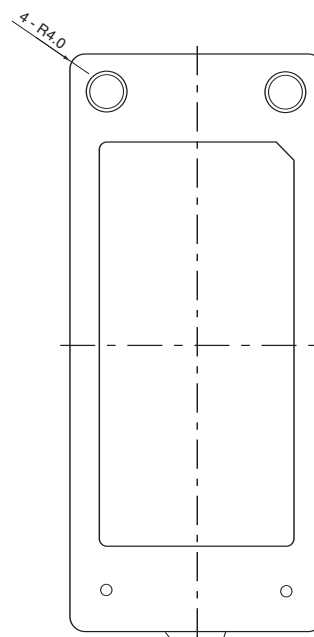
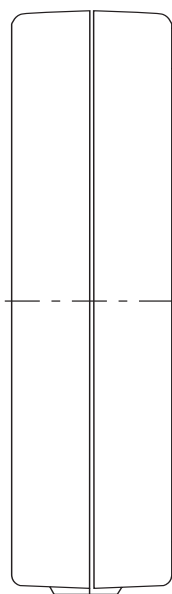
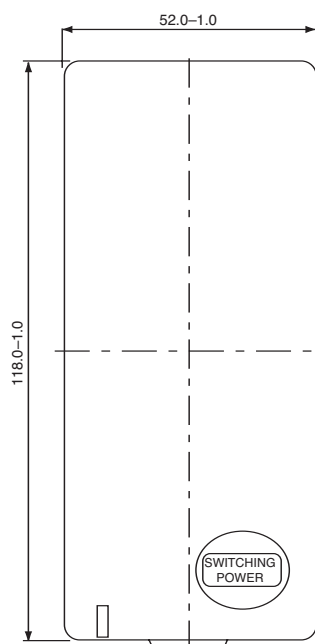
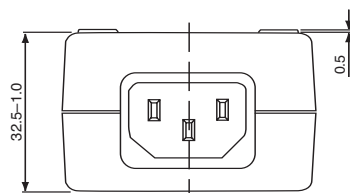
Standard models have 1.8 metre lead fitted with 2.5x5.5x11 female barrel connector, wired centre positive.

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

Any output voltage available within the range of 3V to 50V DC.

Some options subject to minimum order quantities.

MECHANICAL DIMENSIONS MM



NOTE:

1. Dimensions are shown in mm.
2. Weight: 350 - 400gs approx.

Powersolve Electronics Ltd. Units 8A, Arnhem Road, Newbury, RG14 5RU. England

Tel: 01635 521858 Fax: 01635 523771 Email: sales@powersolve.co.uk