

# Desk Top Power Supplies

**POWER  
SOLVE**

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## PSE50 Series 50 Watts Single Output

### Features

- Wide input voltage range of 90-264 VAC
- CEC and Energy Star Compliant
- Class I Safety
- 3 pin IEC-320-C14 AC Inlet
- Output Voltages available from 5V to 50VDC
- Optional Output Connectors



### Electrical Specification

#### INPUT

Input Voltage	90-264VAC
Input Frequency	47-63Hz
Input Current	1.6A max 115VAC input, 0.25A max 230VAC input
Safety Ground Leakage Current	0.75mA max
No Load Input Power	0.5W max

#### OUTPUT

Output Voltage & Current	See Rating Chart
Output Power	50 Watts max
Output Ripple & Noise	1% pk-pk max
Transient Response Time	4mS max full load to half load 100VAC input
Line Regulation	1% max
Load Regulation	3% typical 15% max
Over Current Protection	110-150% I out
Over Voltage Protection	112-132% V out
Hold Up Time	16mS minimum

#### ENVIRONMENTAL

Operating Temperature	0 to 70°C, derate linearly from 100% at 40°C to 50% load at 70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95% max

#### GENERAL

Efficiency	83% typical 88% max
MTBF	270,000 hours @ 25°C calculated to MIL-HDBK-217F

#### SAFETY

Withstand Voltage	Primary to Secondary 4242V DC, Primary to Ground 2121V DC
Isolation Resistance	50Mohm Min
Safety Approvals	UL/cUL60950, TUV/GS(EN60950), CB
EMI/EMC	CISPR22 'B', FCC Part 15 'B', EN55022 'B'

#### MECHANICAL

UL94V-1 plastic enclosure, see drawing for dimensions

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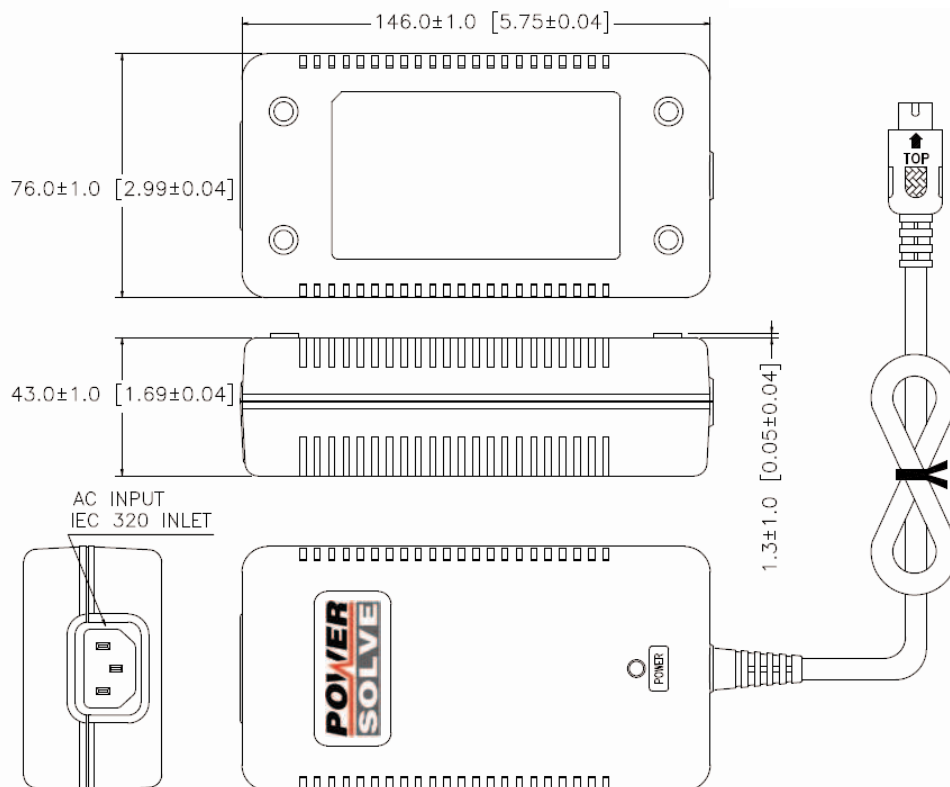
## Output Voltage & Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	MAX OUTPUT POWER
<a href="#">PSE50-05-02</a>	5V DC	8.00A	40 Watts
<a href="#">PSE50-09-02</a>	9V DC	5.00A	45 Watts
<a href="#">PSE50-12-02</a>	12V DC	4.17A	50 Watts
<a href="#">PSE50-15-02</a>	15V DC	3.33A	50 Watts
<a href="#">PSE50-16-02</a>	16V DC	3.13A	50 Watts
<a href="#">PSE50-18-02</a>	18V DC	2.78A	50 Watts
<a href="#">PSE50-24-02</a>	24V DC	2.08A	50 Watts
<a href="#">PSE50-48-02</a>	48V DC	1.04A	50 Watts

Models above are standard stock items fitted with a 2.5 x 5.5 x 11mm Female Barrel connector wired centre positive, (-02) on end of part number. Alternative connectors can be fitted, consult sales office for details.

In addition other models are available to order with any voltage in the range of 5V to 50V DC.

## Mechanical Details



All dimensions are shown in mm  
Weight 560gms approx