

# Desk Top Power Supplies



[www.powersolve.co.uk](http://www.powersolve.co.uk)

## PS150E Series 150 Watt Switch Mode PFC Universal AC Input

### Features

- Universal Input Range 90-264VAC
- Active PFC Function
- Overvoltage & Short Circuit Protection
- Conductive EMI Meets CISPR/FCC Class B
- CEC Level IV Compliant (Output cable length  $\leq$ 1800mm)  
(PS150E120: Output cable  $\leq$ 950mm)  
(PS150E150: Output cable  $\leq$ 1220mm)
- Optional Output Connectors



### Electrical Specification

#### INPUT

Input Voltage Range	90 - 264Vac
Frequency	47 - 63Hz
Inrush Current	120A max. @ 264Vac
Conducted EMI	CISPR/FCC Class B
Isolation - Input/Output	4242VDC
Leakage Current	3.5mA max.

#### OUTPUT

Hold-up Time	8mS typ. @ 115Vac
Short Circuit Protection	Auto Recovery
Over Voltage Protection	Recycle AC input to restart
Over Temperature Protection	Auto Recovery

#### ENVIRONMENTAL

Operating Temperature Range	0°C to +40°C
Storage Temperature Range	-20°C to +85°C
Cooling	Natural convection

#### GENERAL

Safety Approval	cUL/UL 60950, TUV EN60950
Dimensions	180.0 x 74.0 x 41.0 mm 7.08 x 2.91 x 1.61 inches
AC Inlet	IEC320/C14

### Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REG.	LOAD REG.
PS150E120	12V	12.5A	2%	$\pm$ 2%	$\pm$ 1%	$\pm$ 5%
PS150E150	15V	10A	2%	$\pm$ 2%	$\pm$ 1%	$\pm$ 5%
PS150E240	24V	6.25A	2%	$\pm$ 2%	$\pm$ 1%	$\pm$ 5%
PS150E480	48V	3.13A	2%	$\pm$ 2%	$\pm$ 1%	$\pm$ 5%

#### NOTE:

1. Voltage set point at 60% full load.
2. Output noise and ripple measured with 47 $\mu$ F electrolytic & 0.1 $\mu$ F ceramic capacitors across output at 20MHz BW.
3. Line regulation is measured from High Line to Low Line at full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60%  $\pm$ 40% load).
5. Dimension tolerance  $\pm$ 1mm
6. Cable length limit for PS150E120: 950mm max.  
Cable length limit for PS150E150: 1220mm max.  
Cable length limit for PS150E240/480: 1800mm max.

Typical at 25°C, nominal line and 60% load unless otherwise stated.

# Desk Top Power Supplies



[www.powersolve.co.uk](http://www.powersolve.co.uk)

## Mechanical Details

All dimensions in inches (mm)

Tolerances:

Inches x.xxx ±0.02

Millimeters x.xx ±0.5

