

Desk Top Power Supplies

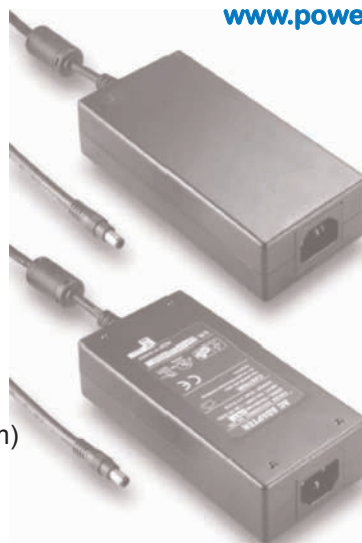


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PS150E Series 150 Watt Switch Mode PFC Universal AC Input

Features

- Universal Input Range 90-264VAC
- Active PFC Meets EN61000-3-2
- Overvoltage & Short Circuit Protection
- Conductive EMI Meets CISPR/FCC Class B
- CEC & ErP Level V Compliant (Output cable length $\leq 1800\text{mm}$)
(PS150E120: Output cable $\leq 950\text{mm}$)
(PS150E150: Output cable $\leq 1220\text{mm}$)
- Optional Output Connectors



Electrical Specification

INPUT

Input Voltage Range	90 - 264VAC
Frequency	47 - 63Hz
Inrush Current	120A max. @ 240VAC
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	Continuous
Over Voltage Protection	Yes

ENVIRONMENTAL

Operating Temperature Range	0°C to +65°C (above 40°C derate at 2%/°C to 65°C)
Storage Temperature Range	-20°C to +85°C
Cooling	Natural convection

GENERAL

Safety Approval	EN60950-1, IEC60950-1, UL60950-1
Emission & Immunity	EN55022 Class B, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN55024, EN61204-3
Dimensions	180.0 x 74.0 x 41.0 mm 7.08 x 2.91 x 1.61 inches
Weight	950g
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 μF electrolytic & 0.1 μF 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 $\pm 1\text{mm}$
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.

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Mechanical Details

All dimensions in inches (mm)

Tolerances:

Inches x.xxx ± 0.02

Millimeters x.xx ± 0.5

