

# Desk Top Power Supplies

**POWER  
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## PS45E Series 45 Watt Switch Mode Universal AC Input

### Features

- Universal Input Range 90-264VAC
- Continuous Short Circuit Protection
- Over Voltage Protection
- Conductive EMI Meets CISPR/FCC Class B
- CEC & ErP Level V (Output cable length ≤1800mm)  
(PS45E120: Output cable ≤720mm, 16AWG)
- Optional Output Connectors



### Electrical Specification

#### INPUT

Input Voltage Range	90 - 264Vac
Frequency	47 - 63Hz
Inrush Current	70A 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 +40°C
Storage Temperature Range	-20°C to +85°C
Cooling	Natural convection

#### GENERAL

Safety Approvals	cUL/UL 60950, TUV EN60950
Dimensions	120.0 x 52.0 x 31.0 mm 4.724 x 2.047 x 1.220 inches
Weight	280g
AC Inlet	IEC320/C14

### Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REG.	LOAD REG.	% EFF.
PS45E120	12V	3.75A	120mV pk-pk	±2%	±1%	±3%	84%
PS45E150	15V	3.00A	150mV pk-pk	±2%	±1%	±3%	85%
PS45E180	18V	2.50A	180mV pk-pk	±2%	±1%	±2%	85%
PS45E190	19V	2.37A	190mV pk-pk	±2%	±1%	±2%	85%
PS45E240	24V	1.88A	240mV pk-pk	±2%	±1%	±2%	86%
PS45E480	48V	1.00A	480mV pk-pk	±2%	±1%	±2%	87%

#### NOTE:

1. Voltage set point at 60% full load.
2. Output noise and ripple measured with 10µF electrolytic & 0.1µF ceramic capacitors across output at 20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac at full load.
4. Load regulation is measured from 60% to full load and from 60% to 20% load (60% ±40% load).

Typical at 25°C, nominal line and 75% load unless otherwise stated.

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## Mechanical Details

All Dimensions in Inches(mm)  
Tolerance Inches: x.xxx=  $\pm 0.02$   
Millimeters: x.xx=  $\pm 0.5$

Note: Cable length 720mm for PSE45E-120

