

Desk Top Power Supplies

**POWER
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PS70E Series 66-70 Watt Switch Mode Universal AC Input

Features

- Universal Input Range 90-264VAC
- Continuous Short Circuit Protection
- Over Voltage Protection
- Conductive EMI Meets EN55022 & CISPR/FCC Class B
- CEC & ErP Level V Compliant (Output cable length $\leq 1800\text{mm}$)
(PS70E120: Output cable $\leq 720\text{mm}$ 16AWG)
(PS70E150: Output cable $\leq 1220\text{mm}$ 16AWG)
- Optional Output Connectors



Electrical Specification

Input Voltage Range	90 - 264Vac
Frequency	50 - 60Hz
Inrush Current	80A max. @ 240Vac
Conducted EMI	CISPR/FCC Class B
Isolation - Input/Output	4242VDC
Leakage Current	3.5mA max.
Output Voltage	See table
Output Current	See table
Hold-up Time	8mS typ. @ 115Vac
Short Circuit Protection	Continuous
Over Voltage Protection	Yes
Temperature Coefficient	$\pm 0.05\%/^{\circ}\text{C}$
Operating Temperature Range	0°C to $+60^{\circ}\text{C}$ (derate linearly above 40°C from 100% to 50% load at 60°C)
Storage Temperature Range	-20°C to $+85^{\circ}\text{C}$
Humidity	93% RH max. non condensing
Cooling	Natural convection
Emissions & Immunity	EN55022 Class B, FCC Part 15 Class B, EN61000-6-3, EN61000-3-2, -3, EN55024, EN61204-3, EN61000-6-1
Safety Approvals	IEC60950-1, EN60950-1, UL60950-1
Dimensions	132.0 x 58.0 x 30.5 mm (5.197 x 2.283 x 1.201 inches)
Weight	345g
AC Inlet	IEC320/C14

Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REG.	LOAD REG.	% EFF.
PS70E120	12V	5.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 5\%$	85%
PS70E150	15V	4.6A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 3\%$	85%
PS70E180	18V	3.9A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	85%
PS70E190	19V	3.7A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	85%
PS70E240	24V	3.0A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	86%
PS70E480	48V	1.5A	1%	$\pm 2\%$	$\pm 1\%$	$\pm 2\%$	87%

NOTE:

1. Voltage set point at 60% full load.
2. Output noise and ripple measured with 10 μF electrolytic & 0.1 μF 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% $\pm$ 40% load).

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

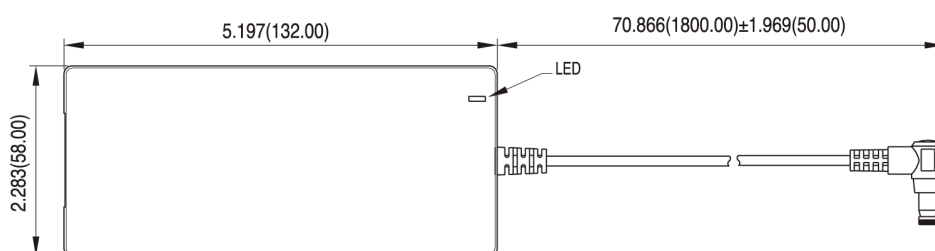
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Mechanical Details

All Dimensions In Inches(mm)
Tolerance Inches: x.xxx= ± 0.02
Millimeters: x.xx= ± 0.5



Options: Consult Sales Office for details
Alternative output connectors available
In-line ferrite core on output cable

