## **Desk Top Power Supplies**



### PS100E Series 100 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

(PS100E120/150: Output cable ≤1200mm)

(PS100E240/480: Output cable ≤1800mm)

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.	3.5mA max.		
OUTPUT				
Hold-up Time	20mS typ. @ 115Vac			
Short Circuit Protection	Auto Recovery			
Over Voltage Protection	Recycle AC input to restart			
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	150.0 x 70.0 x 35.0 mm			
	5.906 x 2.756 x 1.378 inches			
Weight	600g			
AC Inlet	IEC320/C14			

Output Voltage and Current Ratings								
MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT	RIPPLE & NOISE	VOLTAGE SETPOINT	LINE REG.	LOAD REG.		
PS100E120	12V	8.34A	2%	±2%	±1%	±4%		
PS100E150	15V	6.67A	2%	±2%	±1%	±4%		
PS100E240	24V	4.17A	2%	±2%	±1%	±2%		
PS100E480	48V	2.08A	2%	±2%	±1%	±2%		

#### NOTE

- 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).
- 5. Cable length limit for PS100E120/150: 1200mm max. Cable length limit for PS100E240/480: 1800mm max.

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

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