

Desk Top Power Supplies

POWER
SOLVE

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PS100A Series 100 Watts Switch Mode PFC Universal AC Input

Features

- Universal Input: 90 - 264Vac
- Conductive EMI Meets CISPR/FCC Class B
- High Efficiency, 85% Typical
- Active Power Factor Correction meets EN61000-3-2
- IEC320 3 pin input
- Optional output connectors



Electrical Specification

INPUT

Input voltage	90-264 VAC
Input frequency	47-63 Hz
Inrush current	100A Max @ 264 VAC
Conducted EMI	CISPR/FCC Class B
Isolation	Input to Output = 4,242VAC
Leakage Current	3.5mA max

OUTPUT

Holdup Time	20mS typ. @ 115Vac
Short Circuit Protection	Continuous
Over Voltage Protection	Auto Recovery

ENVIRONMENTAL

Operating temperature	0°C to +40°C
Storage temperature	-20°C - 85°C

MECHANICAL CHARACTERISTICS

Dimensions	150x70x35 mm
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Typical @ 25°C, nominal line and 75% load, unless otherwise specified

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MODEL	OUTPUT VOLTAGE	MAX LOAD	MIN LOAD	RIPPLE & NOISE	VOLTAGE ACCURACY	LINE REGULATION	LOAD REGULATION
PS100A120	12V	8.33 A	0A	1%	±2%	±1%	±4%
PS100A150	15V	6.67 A	0A	1%	±2%	±1%	±4%
PS100A180	18V	5.56 A	0A	1%	±2%	±1%	±2%
PS100A190	19V	5.21 A	0A	1%	±2%	±1%	±2%
PS100A240	24V	4.17 A	0A	1%	±2%	±1%	±2%
PS100A280	28V	3.54 A	0A	1%	±2%	±1%	±2%
PS100A290	29V	3.41 A	0A	1%	±2%	±1%	±2%
PS100A300	30V	3.30 A	0A	1%	±2%	±1%	±2%
PS100A360	36V	2.78 A	0A	1%	±2%	±1%	±2%
PS100A480	48V	2.08 A	0A	1%	±2%	±1%	±2%

Note:

1. Voltage accuracy is set at 60% load.
2. Add a 0.1mF ceramic capacitor and a 10mF E.L. capacitor to output for Ripple & Noise measurement @20MHz BW.
3. Line regulation measured from 100Vac to 240Vac, full load.
4. Load regulation measured from 60% to full load and from 60% to 20% load (60% +/- 40% load)
5. Cable length limit for PS100A120/150: 1200mm (max)
Cable length for PS100A180/190/240/480: 1800mm (max)

Stock items fitted with 2.5 x 5.5 x 11mm barrel connector, centre positive

Options: Optional output connector - consult sales office for details

Unit: mm (in)

