

Desk Top Power Supplies



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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 |
|------------|--------------|

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)

