

PM-15 Series

15W Single Output AC/DC Module



FEATURES

- Universal AC input / full range
- Short circuit, Overload & Overvoltage Protections
- Ultra-miniature size, light weight
- Cooling by free air convection
- Isolation class II
- Medical safety approved
- No load power consumption <0.5W
- 100% full load burn-in test
- High reliability

ENVIRONMENTAL

Operating Temp: -20 to +70°C
With de-rating

Storage Temp: -40 to +85°C

SAFETY / EMC

UL60601-1, EN60601-1, IEC60601-1

EN55011, EN55022 Class B
EN61000-3-2, -3
EN61000-4-2, 3, 4, 5, 6, 8, 11
ENV50204, EN55024, EN60601-1-2
EN61204-3, medical level, criteria A

ELECTRICAL SPECIFICATIONS

| Model No. | PM-15-XX | | | | |
|----------------------|-----------------------|-------|---------|-------|---------|
| XX | 3.3 | 5 | 12 | 15 | 24 |
| AC Input | 85 - 264VAC, 47-440Hz | | | | |
| DC Input | 120 - 370VDC | | | | |
| DC Output | | | | | |
| Voltage | 3.3V | 5V | 12V | 15V | 24V |
| Current | 0-3.5A | 0-3A | 0-1.25A | 0-1A | 0-0.63A |
| Rated Power | 11.55W | 15W | 15W | 15W | 15.12W |
| Ripple & noise (p-p) | 80mV | 80mV | 150mV | 150mV | 240mV |
| Voltage Tolerance | ±3.0% | ±2.0% | ±2.0% | ±2.0% | ±2.0% |
| Line Regulation | ±1.0% | ±1.0% | ±0.5% | ±0.5% | ±0.5% |
| Load Regulation | ±1.0% | ±1.0% | ±1.0% | ±1.0% | ±0.5% |

| | | | | | |
|--------------|---|-----------|-----------|-------------|-----------|
| Overload | Above 105% of rated output power Hiccup mode. Recovers automatically when fault removed. | | | | |
| Over Voltage | 3.8-4.95 | 5.75-6.75 | 13.8-16.2 | 17.25-20.25 | 27.6-32.4 |
| | Shut down output voltage. Clamping by zener diode. | | | | |
| Dimensions | 75(L) x 53(W) x 22.7(H)mm | | | | |
| Weight | 0.14Kg | | | | |

- Notes:**
1. All parameters *NOT* specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
 2. Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair wire terminated with a 0.1µF and 47µF parallel capacitor.
 3. Tolerance includes set up tolerance, line and load regulation.
 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC Directives.

Specifications subject to change without notice

Safety Power Group Ltd

9, Farnborough Business Centre, Eelmoor Road, Farnborough, Hampshire. GU14 7QN

Tel: +44 (0) 1252 515565

Fax: +44 (0) 1252 546021

e-mail: sales@safety-power.com

web: www.safety-power.com