

## DESCRIPTION

The PM100 series of compact, open PCB constructed, AC-DC switching power supplies are capable of delivering 100 watts of continuous output power at convection cooling. They are suited for medical, information technology and industrial applications, but not for life-supporting medical equipment. Approval to both EN60601-1 and EN60950-1 safety standards improves design-in time and reduces end equipment compliance costs.

## FEATURES

- Medical and ITE approvals
- Compact size 2" x 4" x 1.26"
- High power density 10 W/cubic inch
- 100 W output with convection cooling up to +50°C
- Low earth leakage current
- EN55011 /55022 class B emissions
- RoHS compliant

## WATTAGE

**Wattage:** 100W

## DIMENSION

**Dimension:** 101.6mm(L) x 50.8mm(W) x 32.0mm(H)

## INPUT SPECIFICATION

**Input Range:** 90-264 Vdc  
**Input Frequency:** 47-63 Hz  
**Input Current:** 1.9A(rms) for100-120VAC, 1.1A(rms) for200-240VAC  
**Leakage Current:** 150 µA max. @ 264 VAC,63 Hz



## SAFETY STANDARD APPROVAL



## OUTPUT SPECIFICATION

### Ripple & Noise:

Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 µs after a 25% step load change

### Over Current Protection:

All outputs protected to short circuit conditions.

## GENERAL SPECIFICATION

**Efficiency:** 88~90% @ 230 VAC full load  
**Inrush Current:** 40A @ 115 VAC or 80A @ 230 VAC, at 25°C cold start

## ENVIRONMENTAL SPECIFICATION

**TEMP.Range:** Operating Temperature:-10°C to +70°C  
 Storage Temperature: -40°C to + 85°C  
**MTBF:** 270,000 hours at full load at 25°C ambient temperature calculated per MIL-HDBK-217F

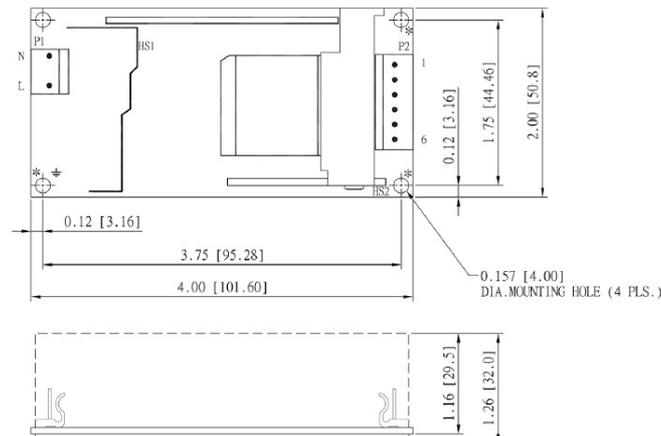
### \*Output Voltage and Current Rating

	<b>+18V</b>
<b>Ripple-Noise(R-P) mV</b>	180mV
<b>Regulation Load %</b>	±2%
<b>Output Max.(A)</b>	5.56A
<b>Output Min.(A)</b>	0A

## NOTES

- Safety approvals are for PCB form only. To order models with metallic L-bracket or box, change suffix "A" to "B" for L-bracket form, to "C" for enclosed form (see Outline Drawing of Cased Internal Switchers), e.g. PM100-14C.
- Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

## MECHANICAL SPECIFICATION



This content is subject to change, please refer to specification for more detail.  
 FSP reserve the right to change the content without prior notice