

## DESCRIPTION

This series of AC-DC switching power supplies in a package of 4 x 7 x 1.58 inches are capable of delivering 400 watts of continuous power at 7 CFM forced air cooling or 300 watts at convection cooling. The units are constructed on a printed circuit board with a U-bracket for mechanical support and heat sinking. A cover and fan assembly can be added during manufacturing for 400 watt output without the change of any dimension. They are designed for medical applications, but not for life-supporting equipment. The units are certified also to IEC/EN/UL 60950-1 and suitable for data networking, computer and telecommunication applications.



## FEATURES

- 4 x 7 inch footprint with 1.58 inch low profile
- 100-240 VAC input with active PFC
- Less than 300  $\mu$ A leakage current
- 300 watt convection rating up to +50°C
- 400 watt output with 7 CFM forced air
- Standby output 5VDC at 100mA
- EN55011 / 5 5022 Class B conducted emissions
- Inhibit - TTL low to disable output
- Standard PS Off and DC OK signals
- Efficiency greater than 88%
- Compliant with RoHS requirements

## WATTAGE

**Wattage:** 400W

## DIMENSION

**Dimension:** 177.8mm(L) x 101.6mm(W) x 39.6mm(H)

## INPUT SPECIFICATION

**Input Range:** 90-264 Vdc  
**Input Frequency:** 47-63 Hz  
**Input Current:** 4.2A(rms) for 115VAC,  
 2.1A(rms) for 230VAC  
**Leakage Current:** 300  $\mu$ A 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  $\mu$ s after a 25% step load change  
**Over Current Protection:** Protected to output short circuit conditions

## ENVIRONMENTAL SPECIFICATION

**TEMP. Range:** Operating Temperature: -10°C to +70°C  
 Storage Temperature: -40°C to +85°C

## \*Output Voltage and Current Rating

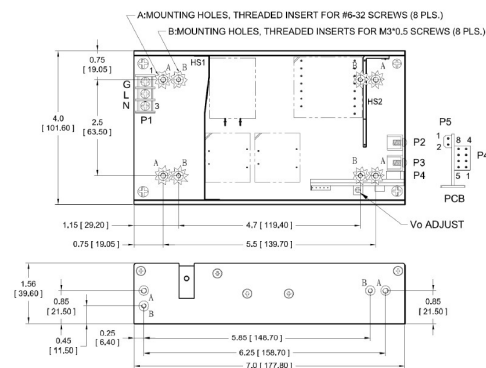
	<b>+28V</b>
<b>Ripple-Noise (R-P) mV</b>	280mV
<b>Regulation Load %</b>	$\pm 2\%$
<b>Output Max. (A)</b>	14.29A
<b>Output Min. (A)</b>	0A

## NOTES

1. Change suffix "B" for U-Bracket form to "C" for enclosed form with cover and fan assembly, e.g. PM400-14C.
2. 300 W without moving air or 400 W with 7 CFM forced air provided by user for "B" version, 400 W for "C" version with cover and fan assembly
3. 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  $\mu$ F tantalum capacitor in parallel with a 0.1  $\mu$ F ceramic capacitor across the output.

## MECHANICAL SPECIFICATION

### U-bracket Form



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