Medical PSU
FSP202-1K40M1

DESCRIPTION

This series of AC-DC switching power supplies in a package of 3 x 5 x 1.5 inches are capable of delivering 200 watts of continuous power at 5.3 CFM forced air cooling or 150 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 200 watt output. They are specially designed for medical applications, but not for life-supporting equipment. The units are certified also to IEC /EN /UL /CSA 60950-1 and suitable for data networking, computer and telecommunication applications.



FEATURES

- 3 x 5 inch footprint with 1.5 inch low profile
- 100-240 VAC input with active PFC
- Less than 220 µA leakage current
- Meet EN55011 /55022 and FCC Class B
- Power Factor 0.98 typical
- Short-circuit protection
- Power Fail Detect (PFD) signal
- Inhibit - TTL high to disable output
- Compliant with RoHS requirements
- Efficiency greater than 87%

SAFETY STANDARD APPAOVAL

WATTAGE

Wattage: 200W

DIMENSION

Dimension: 127.0mm(L) x 76.0mm(W) x 38mm(H)

INPUT SPECIFICATION

Input Range:	90-264 Vdc
Input Frequency:	47-63 Hz
Input Current:	2.5A(rms) for115VAC, 1.25A(rms) for230VAC
Leakage Current:	220 µA max. @ 264 VAC,63 Hz

OUTPUT SPECIFICATION

Ripple & Noise:	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change
Over Current Protection:	Output protected to short circuit conditions

ENVIRONMENTAL SPECIFICATION

TEMP.Range:	Operating Temperature:0°C to +70°C Storage Temperature: -40°C to + 85℃

*Output Voltage and Current Rating

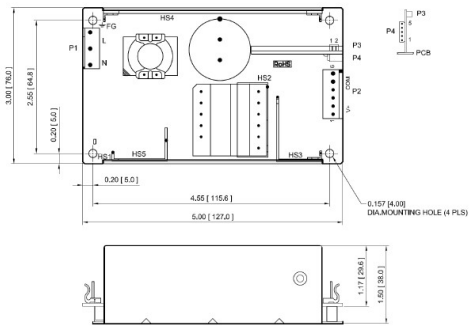
	+24V
Ripple-Noise(R-P) mV	240mV
Regulation Load %	±2%
Output Max.(A)	8.34A
Output Min.(A)	0A

NOTES

1. Suffix "B" in model numbers denotes U-bracket form. Change suffix "B" to "C" for enclosed form with cover and fan assembly, e.g. PM202-14C
2. 150 W without moving air or 200 W with 5.3 CFM forced air provided by user for "B" version, 200 W for "C" version with cover and fan assembly. The adequacy of cooling air is judged by the measured core temperature of transformer T1 below 75℃ at 25℃ ambient, or below100℃ at 50℃ ambient.
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 µF tantalum capacitor in parallel with a 0.1 µF 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