



Medical PSU FSP202-1K20M1

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 μ A 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%

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) for 115VAC,
1.25A(rms) for 230VAC
Leakage Current: 220 μ A max. @ 264 VAC, 63 Hz

*Output Voltage and Current Rating

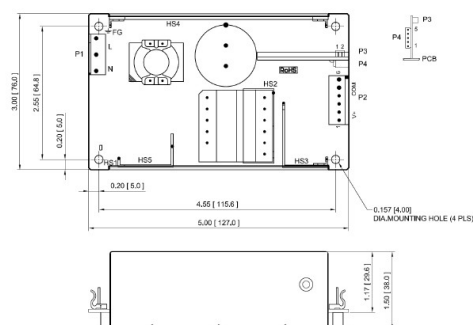
	+12V1
Ripple-Noise(R-P) mV	120mV
Regulation Load %	$\pm 2\%$
Output Max.(A)	16.67A
Output Min.(A)	0A

NOTES

- 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
- 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°C at 25°C ambient, or below 100°C at 50°C ambient.
- 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 μ F tantalum capacitor in parallel with a 0.1 μ 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



SAFETY STANDARD APPROVAL



OUTPUT SPECIFICATION

Ripple & Noise:

Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 μ s after a 25% step load change
Output protected to short circuit conditions

Over Current Protection:

ENVIRONMENTAL SPECIFICATION

TEMP.Range:

Operating Temperature: 0°C to +70°C
Storage Temperature: -40°C to +85°C