Medical PSU
FSP400-1K30M1

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 µA leakage current
- 300 watt convect ion rating up to +50℃
- 400 watt output with 7 CFM forced air
- Standby output 5VDC a t 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 wi th RoHS requirements

SAFETY STANDARD APPAOVAL

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) for115VAC, 2.1A(rms) for230VAC
Leakage Current:	300 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:	Protected to output short circuit conditions

ENVIRONMENTAL SPECIFICATION

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

*Output Voltage and Current Rating

	+15V
Ripple-Noise(R-P) mV	150mV
Regulation Load %	±2%
Output Max.(A)	26.67A
Output Min.(A)	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 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

MECHANICAL SPECIFICATION

U-bracket Form