

60W Medical Adapter

FSP060M Series



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FEATURES

- · Class I design safety standard compliance
- · IEC60601-1 & IEC 62368-1
- · Energy efficiency DOE Level VI
- · No load power consumption $\leq 0.21W$
- · High altitude 5000M operation
- · Compliant with RoHS requirement
- · Meet EN55011

SAFETY STANDARD APPROVAL







DESCRIPTION

This series of medical adapters are Class I design (with safety-protected earth) with IEC-320/C14 or IEC 320/C6 AC inlet. Maximum 60W continued output power at 40°C operation temperature. High-efficiency features comply with US DOE requirements. All models meet EN 55011 conducted and radiated emission.

INPUT SPECIFICATIONS

Input voltage: 90-264 VAC Input frequency: 47-63 Hz

Input current: < 1.4 A (rms) / 115 VAC

< 0.8 A (rms) / 230 VAC \leq 100 µA / 264 VAC, 63 Hz \leq 150 μ A / 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Earth Leakage Current:

Output voltage/current: See rating chart

Maximum output power: 60W

Protection:

Touch current:

OVP: Latch off OCP & Shorted: Auto recovery OTP: Latch off

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: 0°C~+40°C Storage temperature: -20°C~+85°C

Operating humidity: 5% to 95% RH non-condensing Storage humidity: 5% to 95% RH non-condensing

GENERAL SPECIFICATIONS

Efficiency: See rating chart

Hold-up time: 10 ms minimum at 115Vac/60Hz Line regulation: +1% maximum at full load

35 A @ 115 VAC or 100 A @ 230 VAC, at 25°C cold start Inrush current:

Operating altitude: 5000 meters

Withstand voltage: 4000 VAC from input to output (2 MOPP)

1500 VAC from input to ground (1 MOPP)

500 VAC from output to ground

150,000 hours at full load at 25°C ambient, calculated per MTBF:

MIL-HDBK-217F

EMC Performance (IEC60601-1-2)

EN55011: Class B conducted, class B radiated

EN61000-3-2: Harmonic distortion. Class D

EN61000-3-3: Line flicker

EN61000-4-2: ESD, ±15 KV air and ±8 KV contact

EN61000-4-3: Radiated immunity, 3 V/m

Fast transient/burst, ±2 KV Surge, EN61000-4-4: EN61000-4-5: ±1 KV diff., ±2 KV com. Conducted EN61000-4-6: immunity, 3 Vrms Magnetic field

EN61000-4-8: immunity, 30 A/m EN61000-4-11: Voltage dip immunity,

> 30% reduction for 500 ms 60% reduction for 100 ms >95% reduction for 10 ms

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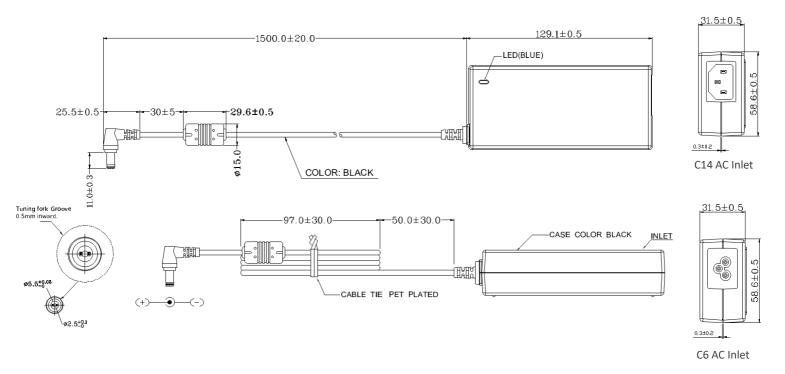
OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Input Socket	Output						Average Active
		Voltage	Min. Current	Max. Current	Tolerance	Ripple & Noise ⁽¹⁾	Max. Power	Efficiency (typical) @115V / 230V ⁽²⁾
FSP060M-DHA3	C14	12 V	0 A	5.00A	±5%	120 mV	60W	89% / 90%
FSP060M-DBA3	C14	19 V	0 A	3.16A	±5%	190 mV	60W	91% / 92%
FSP060M-DAA3	C14	24 V	0 A	2.50A	±5%	240 mV	60W	90% / 91%
FSP060M-DHB3	C6	12 V	0 A	5.00A	±5%	120 mV	60W	89% / 90%
FSP060M-DBB3	C6	19 V	0 A	3.16A	±5%	190 mV	60W	91% / 92%
FSP060M-DAB3	C6	24V	0 A	2.50A	±5%	240 mV	60W	90% / 91%

NOTES:

- 1. Ripple and noise measurements shall be made with an oscilloscope of at least 20MHz bandwidth. Output shall be bypassed at the connector with a 0.1µF ceramic disk capacitor and a 10µF electrolytic capacitor to simulate system loading.
- 2. Average Active Efficiency measurements shall be tested at 100%, 75%, 50%, 25%, and 10% of nameplate output current and no load condition.

MECHANICAL SPECIFICATIONS



1. Dimensions shown in mm.