

TECHNICAL DATASHEET **60W Medical Adapter FSP060M Series**



FSP060M Series

FEATURES

- · Class I design safety standard compliance
- · IEC60601-1 & IEC 62368-1
- · Energy efficiency DOE Level VI
- \cdot No load power consumption ≤ 0.21 W
- · 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: Input frequency: Input current:

Touch current:

90-264 VAC 47-63 Hz < 1.4 A (rms) / 115 VAC < 0.8 A (rms) / 230 VAC \leq 100 μ A / 264 VAC, 63 Hz \leq 150 μ A / 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage/current: Maximum output power: Protection: OVP: OCP & Shorted: OTP:

Earth Leakage Current:

See rating chart 60W Latch off Auto recovery Latch off

0°C~+40°C

-20°C~+85°C

ENVIRONMENTAL SPECIFICATIONS

Operating temperature: Storage temperature: Operating humidity: Storage humidity:

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5% to 95% RH non-condensing

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					
Inrush current:	35 A @ 115 VAC or 100 A @ 230 VAC, at 25°C cold start					
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					
MTBF:	150,000 hours at full load at 25°C ambient , calculated per					
	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					
EN61000-4-4:	Fast transient/burst, ±2 KV					
EN61000-4-5:	Surge, ±1 KV diff., ±2 KV com.					
EN61000-4-6:	Conducted immunity, 3 Vrms					
EN61000-4-8:	Magnetic field 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					



OUTPUT VOLTAGE/CURRENT RATING CHART

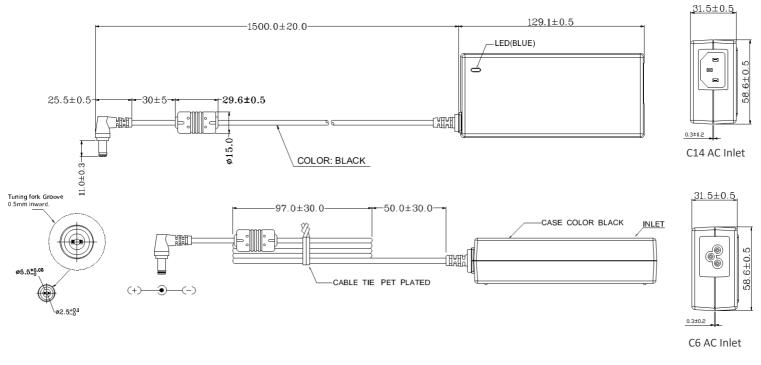
			Output					
Model	Input Socket	Voltage	Min. Current	Max. Current	Tolerance	Ripple & Noise ⁽¹⁾	Max. Power	Average Active Efficiency (typical) @115V / 230V ⁽²⁾
FSP060M-DHA3	C14	12 V	0 A	5.00A	±5%	120 mV	60W	89% / 90%
FSP060M-DBA3	C14	19 V	0 A	3.16A	±5%	190 mV	60W	91% / 92%
FSP060M-DAA3	C14	24 V	0 A	2.50A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



NOTES:

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1. Dimensions shown in mm.

2. Weight: 245 grams (0.54 lbs.) approx.