

150W Medical Adapter

FSP150M Series



FSP150M Series

FEATURES

- · Compact size 170 × 85 × 43 mm
- · Certified medical safety IEC 60601-1
- · Meet Energy Efficiency DOE Level VI
- No load power consumption ≤ 0.21W
- · High altitude 5000M operation
- · Meet EN55011 and FCC Class B
- · Over voltage protection
- · Over current protection
- · Over temperature protection
- · Compliant with RoHS requirement

SAFETY STANDARD APPROVAL







DESCRIPTION

The FSP150M series are high efficiency desktop adapter with IEC 320/C14 AC inlet, which can deliver 150 watts continuous output power. All models meet EN55011 and FCC class B emission limits, and are designed for medical applications.

INPUT SPECIFICATIONS

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

< 2 A (rms) / 100 VAC Input current:

< 0.85 A (rms) / 240 VAC

 $< 100 \mu A / 264 VAC, 50 Hz$ Touch current:

OUTPUT SPECIFICATIONS

See rating chart Output voltage/current: See rating chart Maximum output power:

Protection:

Over temperature:

The power supply will shut down without Over voltage:

> damage while over voltage happened. That will be return to normal state by AC

reset.

The power supply will shut down without Short circuit:

damage and enter auto-recovery mode.

The power supply will shut down without Over current:

damage and enter auto-recovery mode. The power supply will enter into shut

down while the abnormal thermal rise

occurs. That will be return to normal

state by AC reset.

ENVIRONMENTAL SPECIFICATIONS

0°C~+40°C Operating temperature: -20°C~+80°C Storage temperature:

20% to 80% RH non-condensing Operating humidity: 10% to 90% RH non-condensing Storage humidity:

GENERAL SPECIFICATIONS

Power factor: 0.97 Typical at 115 VAC

Efficiency: See rating chart

10 ms minimum at 100Vac/60Hz Hold-up time: Line regulation: ±1% maximum at full load

60 A @ 115 VAC or 120 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)

MTBF: 100,000 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 FCC: Class B conducted, class B radiated VCCI: Class B conducted, class B radiated EN61000-3-2: Harmonic distortion. Class D

EN61000-3-3: Line flicker

ESD. ±15 KV air and ±8 KV contact FN61000-4-2

EN61000-4-3: Radiated immunity, 10 V/m Fast transient/burst, ±2 KV EN61000-4-4: EN61000-4-5: Surge, ±1 KV diff., ±2 KV com. EN61000-4-6: Conducted immunity, 10 Vrms EN61000-4-8: Magnetic field immunity, 30 A/m

FN61000-4-11: Voltage dip immunity, 30% reduction for 500 ms, 60%

reduction for 100 ms, and >95% reduction for 10 ms



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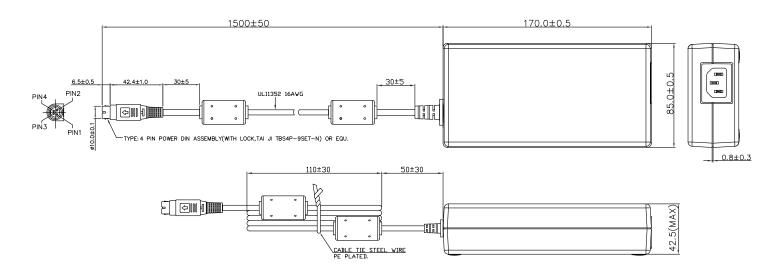
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OUTPUT VOLTAGE/CURRENT RATING CHART

Model		Average Active Efficiency (typical)					
	Vo	Min. Current	Max. Current	Tolerance	Ripple & Noise ⁽¹⁾	Max. Power	@ 115 / 230 VAC
FSP150M-AHA	12 V	0 A	12.50 A	±5%	200 mV	150 W	89% / 91%
FSP150M-AGA	15 V	0 A	10.00 A	±5%	200 mV	150 W	89% / 91%
FSP150M-ABA	19 V	0 A	7.89 A	±5%	200 mV	150 W	89% / 91%
FSP150M-AAA	24 V	0 A	6.25 A	±5%	200 mV	150 W	89% / 91%

NOTES:

MECHANICAL SPECIFICATIONS



NOTES:

- · Dimensions shown in mm.
- · Lock type output plug TAI JI TBS4P-9SET-N or equivalent, mating with TAI JI TBS4P-J-1 or equivalent

PIN CHART

Pin No.	PIN 1	PIN 2	PIN 3	PIN 4	Shield	
Polarity	Vo	(+)	Vo Return			

^{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 35V 47µF Aluminum Cap. Paralleled between the end of output cable.