

TECHNICAL DATASHEET **150W Medical Adapter** FSP150M Series



FSP150M Series

FEATURES

- · Certified medical safety IEC 60601-1
- Meet Energy Efficiency DOE Level VI
- · No load power consumption $\leq 0.21W$
- · High altitude 5000M operation
- · Meet EN55011 and FCC Class B

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

 Input voltage:
 90-264 VAC

 Input frequency:
 47-63 Hz

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

 < 0.85 A (rms) / 240 VAC</td>

 Touch current:
 < 100 μA / 264 VAC, 50 Hz</td>

OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart
Maximum output power:	See rating chart
Protection:	
Over voltage:	The power supply will shut down without
	damage while over voltage happened.
	That will be return to normal state by AC
	reset.
Short circuit & Over current:	The power supply will shut down without
	damage and enter auto-recovery mode.
Over temperature:	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

Operating temperature:	0°C~+40°C
Storage temperature:	-20°C~+80°C
Operating humidity:	20% to 80% RH non-condensing
Storage humidity:	10% to 90% RH non-condensing

GENERAL SPECIFICATIONS

Power factor:	0.97 Typical at 115 VAC
Efficiency:	See rating chart
Hold-up time:	10 ms minimum at 100Vac/60Hz
Line regulation:	±1% maximum at full load
Inrush current:	60 A @ 115 VAC or 120 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)
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
EN61000-4-2:	ESD, ±15 KV air and ±8 KV contact
EN61000-4-3:	Radiated immunity, 10 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, 10 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, and >95% reduction for 10 ms



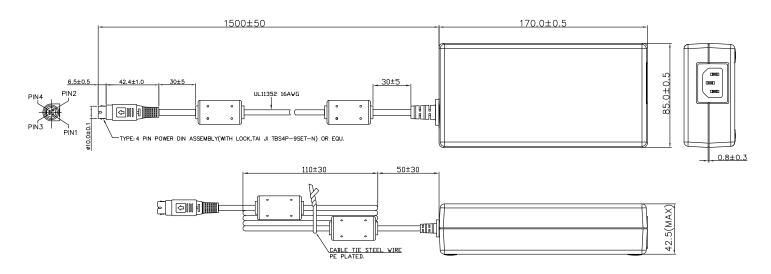
OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output						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%	350 mV	150 W	89% / 91%
FSP150M-AGA	15 V	0 A	10.00 A	±5%	350 mV	150 W	89% / 91%
FSP150M-ABA	19 V	0 A	7.89 A	±5%	350 mV	150 W	89% / 91%
FSP150M-AAA	24 V	0 A	6.25 A	±5%	350 mV	150 W	89% / 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 35V 47µF Aluminum Cap. Paralleled between the end of output cable.

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

• Weight: 762 grams (1.679 lbs.) approx.

PIN CHART

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