

TECHNICAL DATASHEET **180W Medical Adapter** FSP180 Series



FSP180 Series

FEATURES

- · Compact size 197 × 88 × 45 mm
- · Certified medical safety IEC 60601-1
- Meet Energy Efficiency DOE Level V
- $\cdot\,$ No load power consumption \leq 0.5W
- Meet EN55011 and FCC Class B
- · Over voltage protection
- Over current protection
- · Over temperature protection
- · Compliant with RoHS requirement

SAFETY STANDARD APPROVAL



DESCRIPTION

The FSP180 series are high efficiency desktop adapter with IEC 320/C14 or IEC320/C8 AC inlet, which can deliver 180 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:
 < 2.53 A (rms) / 100 VAC</td>

 < 0.88 A (rms) / 240 VAC</td>

 Touch current:
 < 100 μA / 264 VAC, 60 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:	The power supply will shut down without damage and enter auto-recovery mode.
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.

GENERAL SPECIFICATIONS

	Power factor: Efficiency: Hold-up time: Line regulation: Inrush current: Operating altitude :	0.97 Typical at 115 VAC See rating chart 5 ms minimum at 100Vac/60Hz ±1% maximum at full load 60 A @ 115 VAC or 120 A @ 230 VAC, at 25°C cold start 3000 meters
	1 0	4000 VAC from input to output (2 MOPP) 100,000 hours at full load at 25°C ambient , calculated per MIL-HDBK-217F
	EMC Performance	(IEC60601-1-2)
out	EN55011:	Class B conducted, class B radiated
	FCC:	Class B conducted, class B radiated
AC	VCCI:	Class B conducted, class B radiated
	EN61000-3-2:	Harmonic distortion, Class D
out	EN61000-3-3:	Line flicker
e.	EN61000-4-2:	ESD, ±15 KV air and ±8 KV contact
out	EN61000-4-3:	Radiated immunity, 10 V/m
e.	EN61000-4-4:	Fast transient/burst, ±1 KV
с.	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

ENVIRONMENTAL SPECIFICATIONS

0°C~+40°C
-20°C~+80°C
20% to 80%
10% to 90%

RH non-condensing RH non-condensing



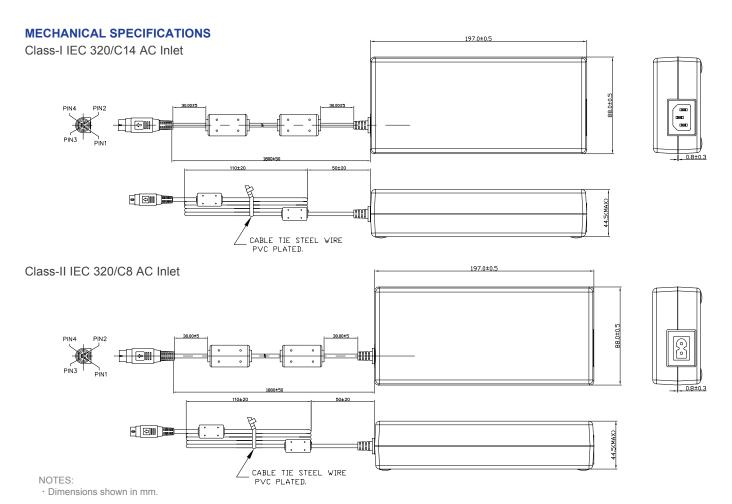
OUTPUT VOLTAGE/CURRENT RATING CHART

Мос	del ⁽¹⁾	Output					Average Active Efficiency (typical)	
Class-I	Class-II	Vo	Min. Current	Max. Current	Tolerance	Ripple & Noise ⁽²⁾	Max. Power	@ 115 / 230 VAC
FSP180-AHAM1		12 V	0 A	15.00 A	±5%	380 mV	180 W	87% / 89%
FSP180-ABAM1		19 V	0 A	9.47 A	±5%	380 mV	180 W	88% / 90%
FSP180-AAAM1	FSP180-AACM1	24 V	0 A	7.50 A	±5%	380 mV	180 W	89% / 91%
FSP180-AKAM1		28 V	0 A	6.42 A	±5%	380 mV	180 W	89% / 91%

NOTES:

1. Class-I models are equipped with IEC 320/C14 inlet, and Class-II models with IEC 320/C8 inlet.

2. 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 47µF electrolytic capacitor to simulate system loading.



PIN CHART

Pin	Pin No.		PIN 2	PIN 3 PIN 4 Shield			
Polarity	Class-I Model	Vo	(+)	Vo Return & AC Ground			
	Class-II Model	Vo	(+)	Vo Return			