

### 65W Medical Adapter

**FSP065 Series** 



# FSP065 Series

#### **FEATURES**

- · Compact size 129 × 51 × 31 mm
- · Certified Medical Safety IEC 60601-1
- · Meet Energy Efficiency DOE Level VI
- · High altitude 5000M operation
- · Meet EN55011 and FCC Class B
- · Over Temperature Protection
  - · Both Class-I & Class-II design are provided

#### SAFETY STANDARD APPROVAL







#### **DESCRIPTION**

The series of AC/DC switching power supplies can deliver 65 watts continuous output power. High efficiency & compact dimension with an IEC320/C8 or IEC320/C6 inlet to mate with interchangeable cord for world-wide use. All models meet EN55011 and FCC class B emission limits.

#### **INPUT SPECIFICATIONS**

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

Input current: < 1.8 A (rms) / 115 VAC < 0.9 A (rms) / 230 VAC Touch current: < 100 µÀ / 264 VAC, 60 Hz

#### **OUTPUT SPECIFICATIONS**

Output voltage/current: See rating chart

65W Total output power:

Over current:

Protection:

The power supply will shut down while Over voltage: over-voltage happened.

Short circuit: Output can be short-circuited without

damage, and will recover automatically

after short-circuit condition is removed. Output current shall be limited between

200% max load and auto recovery or

latch protection.

The power supply will shut down while Over temperature: over-temperature happened. It will

shutdown operation after the fault

condition is removed.

#### **ENVIRONMENTAL SPECIFICATIONS**

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

Operating humidity 5~95% RH non-condensing 5~95% RH non-condensing Storage humidity

#### **GENERAL SPECIFICATIONS**

Efficiency: 87% min.

Hold-up time: 8 ms minimum at 115Vac/60Hz Line regulation: ±1% maximum at full load

Inrush current: 60 A @ 115 VAC or 140 A @ 230 VAC, at 25°C cold start

Operating altitude: 5000 meters

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

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 FCC: Class B conducted, class B radiated VCCI: Class B conducted, class B radiated

EN61000-3-2: Harmonic distortion, Class A

Line flicker EN61000-3-3:

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. Conducted immunity, 3 Vrms EN61000-4-6: EN61000-4-8: Magnetic field immunity, 3 A/m

Voltage dip immunity, 30% reduction for 500 ms, 60% EN61000-4-11:

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



### TECHNICAL DATASHEET

# **65W Medical Adapter**

FSP065 Series

### **OUTPUT VOLTAGE/CURRENT RATING CHART**

Model		Output						Average Active Efficiency (typical)
Class-I	Class-II	Voltage	Min. Current	Max. Current	Tolerance	Ripple & Noise	Max. Power	@ 115 / 230 VAC
FSP065-DHBM1	FSP065-DHCM1	12 V	0 A	5.42 A	±5%	120 mV	65W	87%
FSP065-DGBM1	FSP065-DGCM1	15 V	0 A	4.33 A	±5%	150 mV	65W	87%
	FSP065-DDCM1	18 V	0 A	3.62 A	±5%	180 mV	65W	87%
FSP065-DBBM1	FSP065-DBCM1	19 V	0 A	3.43 A	±5%	190 mV	65W	87%
	FSP065-DACM1	24 V	0 A	2.71 A	±5%	240 mV	65W	87%

#### NOTES

- 1. Class-I models are equipped with IEC 320/C6 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 10µF electrolytic capacitor to simulate system loading.

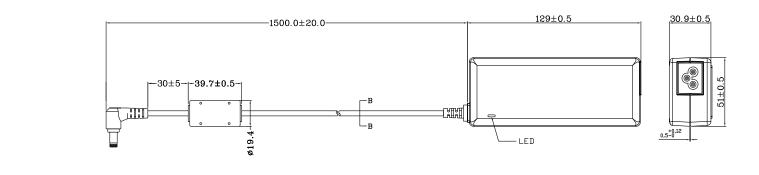


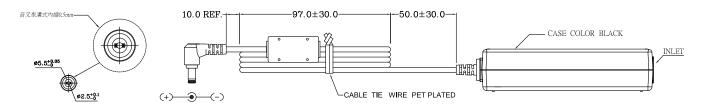
# **65W Medical Adapter**

FSP065 Series

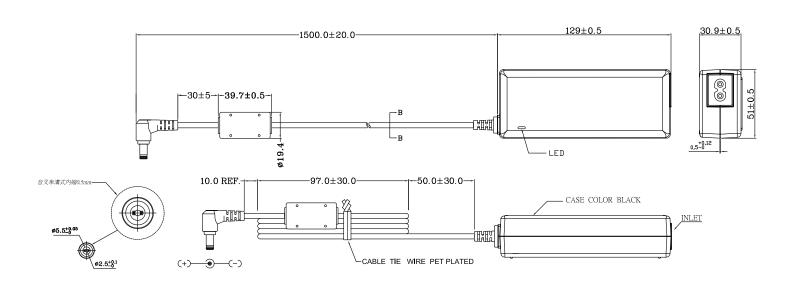
### **MECHANICAL SPECIFICATIONS**

Class I IEC 320/C6 AC Inlet





#### Class II IEC 320/C8 AC Inlet



NOTES:

1. Dimensions shown in mm