



FSP500-70MPE

500 Watts ATX Medical Grade

Meet 80 PLUS Bronze, Haswell, RoHS Compliant

FEATURES

- Active Power Factor Correction (PFC)
- Meet EN61000-3-2
- High efficiency and reliability
- Low noise and ripple
- Compliant with RoHS directive (EU) 2015/863, WEEE directive 2012/19/EU
- Over voltage and over current protection
- Short circuit and thermal protection
- Resettable power shut down
- Internal 8cm 12Vdc fan
- 100% burn-in, Hi-pot, and ATE tested
- Meet EMI Regulatory; FCC Part 15 Subpart J, Class B 115Vac; CISPR 22 Class B 230Vac
- Safety approvals: UL/CUL60601-1-2, TUV 60601, CB, CE, FCC, EMC



GENERAL SPECIFICATIONS

- **Operating Temperature:** 0°C ~ +50°C
- **Storage Temperature:** -40°C ~ +80°C
- **Operating Humidity:** 85% RH, Non-condensing
- **Storage Humidity:** 95% RH, Non-condensing
- **Efficiency:** Typical load > 85%
- **Leakage Current:** < 0.3mA at 264Vac, 50Hz
- **Rise time:** 20ms Maximum
- **Hold-up Time:** 21 ms Minimum at 100% load
- **Dielectric Withstand:** 1800Vac for 2 second
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **MTBF:** > 100,000 hours at 100% load, 25°C
- **Dimensions:** 140mm (L) x 150mm (W) x 86mm (H)

INPUT CHARACTERISTICS

Input Range: 90 ~ 264Vac, Full Range Input

Frequency: 47 ~ 63Hz

Inrush Current: Cold start no damage

Maximum Input Line Current:

Model	115 Vac	230 Vac
FSP500-70MPE	8A	4A

OUTPUT CHARACTERISTICS

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.1A	32.0A	± 5%	50mV P-P
+5V	0.2A	30.0A	± 5%	50mV P-P
+12V1	0.1A	18.0A	± 5%	120mV P-P
+12V2	0.3A	18.0A	± 5%	120mV P-P
-12V	0A	0.8A	± 10%	120mV P-P
-5V	0A	0.2A	± 10%	100mV P-P
+5Vsb	0A	3.0A	± 5%	50mV P-P

* The +3.3V and +5V total output shall not exceed 180W.
* The +12V1 and +12V2 total output shall not exceed 36A.