



Sparkle Power Inc.
 A Leading Power Supply Manufacturer
 Web site: www.sparklepower.com



FSP400-70MP
(Medical Grade, RoHS Compliant)
400 Watts ATX12V, EPS12V Switching Power Supply

Features

- Complied with ATX12V, EPS12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Complies with FCC CFR 47 part 18 subpart C, 120Vac operation & EN60601-1-2, EN55011, 230VAC operation
- Approved by UL60601-1, CSA C22.2 NO. 601-1-M90, VDE EN60601-1, (CB Report), CE

Input Characteristics

Input Range: 90 ~ 265Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 8A (RMS) @ 115Vac, 4A (RMS) @ 230Vac
Inrush Current: 60A @ 115Vac, 100A @ 230Vac at cold start

Output Characteristics

Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5 ~ 90% on operating, 5 ~ 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 68% minimum at 115Vac and 230Vac on Full load.
- **Rise time:** Less than 20ms
- **Hold-up Time:** 20ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 0.3mA at 264Vac, 63Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4inch

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	30A	± 5%	± 1%	50mV P-P
+5V	0.3A	30A	± 5%	± 1%	50mV P-P
+12V1	1.0A	17A	± 5%	± 1%	120mV P-P
+12V2	1.0A	17A	± 5%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 1%	100mV P-P
-12V	0.0A	0.8A	± 10%	± 1%	120mV P-P
+5Vsb	0.0A	2.0A	± 5%	± 1%	50mV P-P

*+3.3V and +5V total output shall not exceed 180W
 *+3.3V, +5V and +12V total output shall not exceed 380W
 * Total output for this subject power supply is 400W

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