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SPI500ACAP

(80PLUS Platinum, RoHS Compliant) 500 Watts ATX12V 2.3 EPS12V V2.92 Switching Power Supply (Meet 2013 ErP)

Features

- Complied with ATX12V 2.3 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 part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1, TUV EN60950-1, CB 60950-1 report, FCC.EMC.

Specification

- **Temperature Range:** Operating: +0°C ~ +40°C on full load Storage & Shipping: -40°C ~ +70°C
- **Humidity**: 5-85% on operating, 5-95% on storage
- Dielectric Withstand: Primary to frame ground 1800V_{AC} for 1 second
- Efficiency: 89% minimum, typical up to 92%
- **Rise time:** 15ms maximum
- Hold-up Time: 17ms 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 3.5mA at 264Vac, 50Hz
- MTBF: 100.000 hours on maximum load at +25°C
- **Dimensions** (**LxWxH**):140x150x85.8mm / 5.5x5.9x3.4inch

Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input

Frequency: 47 ~ 63Hz

Input Current: Max 8A at 100-127Vrms@60Hz.

Max 4A at 200-240Vrms@50Hz

Inrush Current: No damage.

Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.1A	12A	16/3A	±5%	±1%	50mV P-P
+5V	0.2A	12A	7.4/16A	±5%	±1%	50mV P-P
+12V1	0.1A	A8	18A	±5%	±1%	120mV P-P
+12V2	0A	A8	18A	±5%	±1%	120mV P-P
+12V3	0A	A8	18A	±5%	±1%	120mV P-P
-12V	0A	0.15A	0.3A	±10%	±2%	200mV P-P
+5Vsb	0A	1.5A	3A	±5%	±1%	50mV P-P

⁺¹²V1,2,3 Peak current is 20A(less then 10mS).

+5Vsb peak current is 4A(less then 0.5S).

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*+3.3V & +5V total output does not exceed 90W when +5V is loaded to 16A, then +3.3V maximum load is 3A when +3.3V is loaded to 16A, then +5V maximum load is 7.4A

*+12V1, +12V2,+12V3 total output not exceed 456W(38A)

*All outputs shall be safety-isolated from the AC mains and share a common return. This common return must be connected to supply chassis

*Voltage and ripple are measured at the load side of mating connectors with a 0.1uF monolithic ceramic capacitor paralleled by a 10uF electrolytic capacitor across the measuring terminals

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