

FSP650-80EPN(85)

(80PLUS Bronze, RoHS Compliant) 650 Watts ATX12V 2.3 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.

Input Characteristics

Input Range: 90 ~ 264Vac, Full Range Input

Frequency: 47 ~ 63Hz

Input Current: Max 8A @ 115Vac, 4A @ 230Vac

Inrush Current: No damage.

Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	1.5A	10A	28/3A	±5%	±1%	50mV P-P
+5V	1A	9A	12/28A	±5%	±1%	50mV P-P
+12V1	1A	12A	18A	±5%	±1%	120mV P-P
+12V2	1A	9A	18A	±5%	±1%	120mV P-P
+12V3	1A	12A	18A	±5%	±1%	120mV P-P
+12V4	1A	12A	18A	±5%	±1%	120mV P-P
-12V	0A	0.25A	0.5A	±10%	±2%	200mV P-P
+5Vsb	0A	1A	3.5A	±5%	±1%	50mV P-P

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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: 82% minimum, typical up to 85%
- Rise time: Less than 20ms
- 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

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^{*+12}V1,2,3,4 Peak current is 20A (less than 10mS)

^{*+5}V_{sb} peak current is 4.5A (less than 0.5S)

^{*+3.3}V & +5V total output does not exceed 150W when +5V is loaded to 28A, then +3.3V maximum load is 3A when +3.3V is loaded to 28A, then +5V maximum load is 11.5A

^{*+12}V1 & +12V2 & +12V3 & +12V4 total output does not exceed 600W