



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

FSP460-621U (Active PFC & RoHS Compliant)

460 Watts, ATX12V, EPS12V, 1U Switching Power Supply

Features

- Complied with ATX, ATX12V and EPS12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Remote ON/OFF function
- Internal 12V DC fan included
- Noise Killer (thermal fan speed control function)
- Low noise and ripple
- Complies with FCC part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Output over voltage, short circuit, and over current protection
- 100% Hi-pot, ATE, and burn-in tested
- Re-settable power shut down
- Approved by UL60950, CSA C22.2 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

Input Characteristics

Input Range: 90 ~ 265Vac (RMS), Full Range Input

Frequency: 47 ~ 63Hz

Input Current: 9A (RMS) @115Vac, 5A (RMS) @230Vac

Inrush Current: 80A Max @115Vac, 120A Max @230Vac cold

start

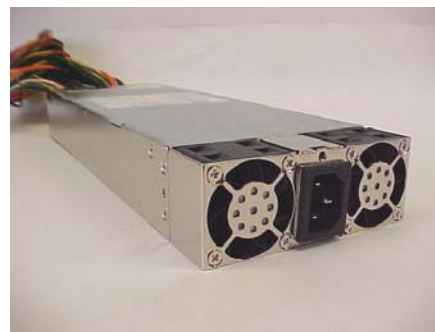
Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	30A	+5%/4%	± 1%	50mV P-P
+5V	0.5A	30A	+5%/4%	± 1%	50mV P-P
+12V1	1.0A	16.5A	+5%/4%	± 1%	120mV P-P
+12V2	1.0A	15A	+5%/4%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 1%	120mV P-P
-12V	0.0A	0.8A	+9%/5%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A	+5%/4%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 200W

*+3.3V, +5V, and +12V total output cannot exceed 440W

* This subject power supply is 460W



Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5 ~ 95% on operating and storage
- **Dielectric Withstand:** Input to frame ground 1800 VAC for 1 second
- **Efficiency:** 65% at minimum measured at nominal AC main voltage and frequency with maximum load on all outputs
- **Rise time:** Less than 50ms
- **Hold-up Time:** 18ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Not exceed 3.5mA at 264Vac, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 300x106x40mm/11.8x4.2x1.6inch

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