



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

FSP250-60PLN (Active PFC & RoHS Compliant)
250 Watts ATX12V Switching Power Supply

Features

- Complied with ATX and ATX12V 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, and CISPR 22 class B
- Approved by UL60950, CSA C22.2 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

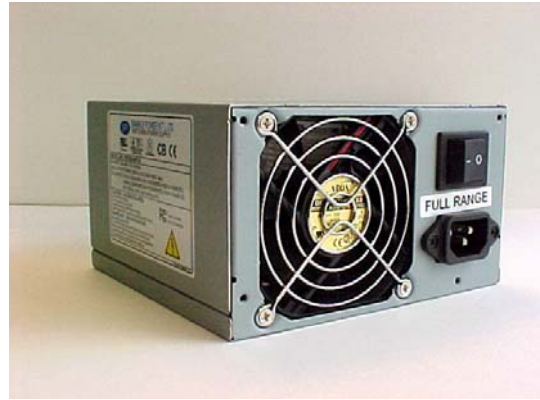
Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 5A (RMS) @ 115Vac, 2.5A (RMS) @ 230Vac
Inrush Current: Max 50A @ 115Vac, 80A @ 230Vac at cold start

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Peak Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.3A	25A		± 5%	± 1%	50mV P-P
+5V	0.1A	25A		± 5%	± 1%	50mV P-P
+12V	0.0A	13A	16A	± 5%	± 1%	120mV P-P
-5V	0.0A	0.3A		± 5%	± 2%	100mV P-P
-12V	0.0A	0.8A		± 5%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A		± 5%	± 1%	50mV P-P

*+3.3V and +5V total output not exceed 150W
 *+3.3V, +5V, and +12V total output cannot exceed 230W



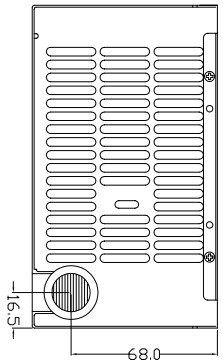
Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 95% on operating & storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1sec
- **Efficiency:** 65% minimum measured at nominal AC main voltage and frequency with maximum load on all outputs
- **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:** Not exceed 0.75mA at 115Vac/60Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4in

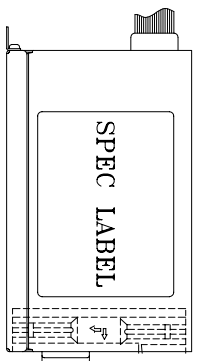
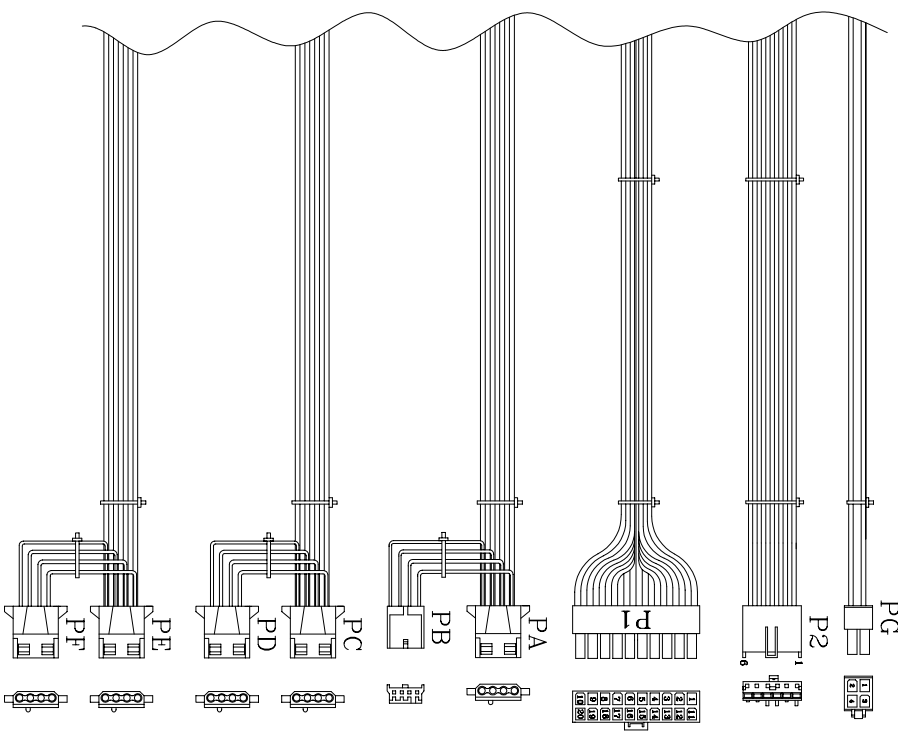
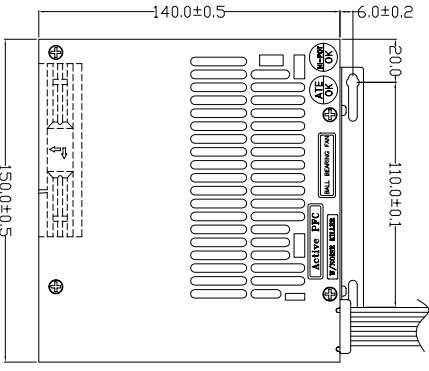
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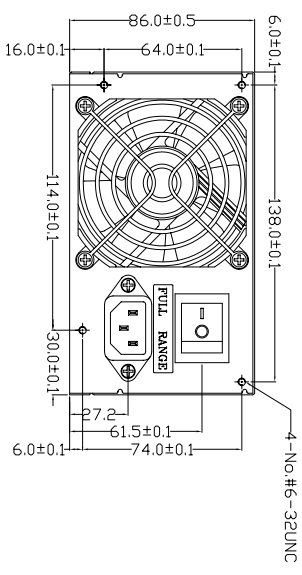
REF. ID	PN	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	MOLEX 3801-3800 or EQUIV.	500±15mm
	2	+3.3VDC	ORANGE	18		
	3	COM	BLACK	18		
	4	COM	BLACK	18		
	5	+5VDC	RED	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	+5V6B	GRAY	18		
	9	+5V6B	PURPLE	18		
	10	+12VDC	YELLOW	18		
	11	+3.3VDC	ORANGE	18		
	12	+12VDC	BROWN	18		
	13	COM	BLACK	18		
	14	PS-ON	GREEN	18		
	15	COM	BLACK	18		
	16	COM	BLACK	18		
	17	COM	BLACK	18		
	18	-5VDC	WHITE	18		
	19	+5VDC	RED	18		
	20	+5VDC	RED	18		
PA	1	+12VDC	YELLOW	18	AMP 1-460424-0390±15mm or EQUIV.	
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
PB	1	+12VDC	YELLOW	22	AMP 171822-4 or EQUIV.	200±10mm
	2	COM	BLACK	22		
	3	COM	BLACK	22		
	4	+5VDC	RED	22		
P2	1	COM	BLACK	18	MOLEX 90331-0010	500±15mm
	2	COM	BLACK	18		
	3	+3.3VDC	ORANGE	18		
	4	+3.3VDC	ORANGE	18		
PC	1	+12VDC	YELLOW	18	AMP 1-460424-0390±15mm or EQUIV.	
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
PD	1	+12VDC	YELLOW	18	AMP 1-460424-0200±10mm or EQUIV.	
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
PE	1	+12VDC	YELLOW	18	AMP 1-460424-0390±15mm or EQUIV.	
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
PF	1	+12VDC	YELLOW	18	AMP 1-460424-0200±10mm or EQUIV.	
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
PG	1	COM	BLACK	20	MOLEX 38-01-2040±500±10mm or EQUIV.	
	2	COM	BLACK	20		
	3	+12V	YELLOW	20		
	4	+12V	YELLOW	20		



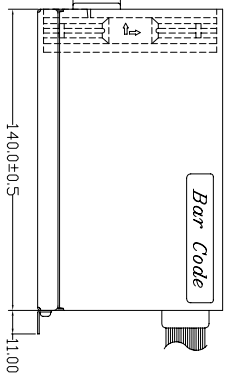
3 取消ROHS LABEL



AIR FLOW



AIR FLOW



FSP P/N.:9PA2504515
SPI P/N.:FSP250-60PLNR

- NOTE:
1. ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.
 2. 產地標籤依業務指示加貼.

UNIT:mm

MODEL NO. : FSP250-60PLN(S036)	TITLE: ASSY	SHEET: 1 OF 1	REV:03
R&D	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Dec.08.2005
			黃鈺婷