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

SPI220LE5

(80PLUS, RoHS Compliant)

220/250 Watts Flex ATX Switching Power Supply



Features

- Complied with Flex 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 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by CUL/UL60950-1,TUV EN60950-1 , NEMKO EN60950 -1(CB Report) CE

Specification

- **Temperature Range:** Operating 0° C ~ +25° C on 250W output load or 0° C ~ +50° C on 220W output 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:** typical up to **80%**
- **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):**150x81.5x43mm /6x3.2x1.7inch

Input Characteristics

Input Range: 90 ~ 264Vac , Full Range Input
Frequency: 47 ~ 63Hz
Input Current: Max 5A @ 115Vac, 3A @ 230Vac
Inrush Current: No damage.

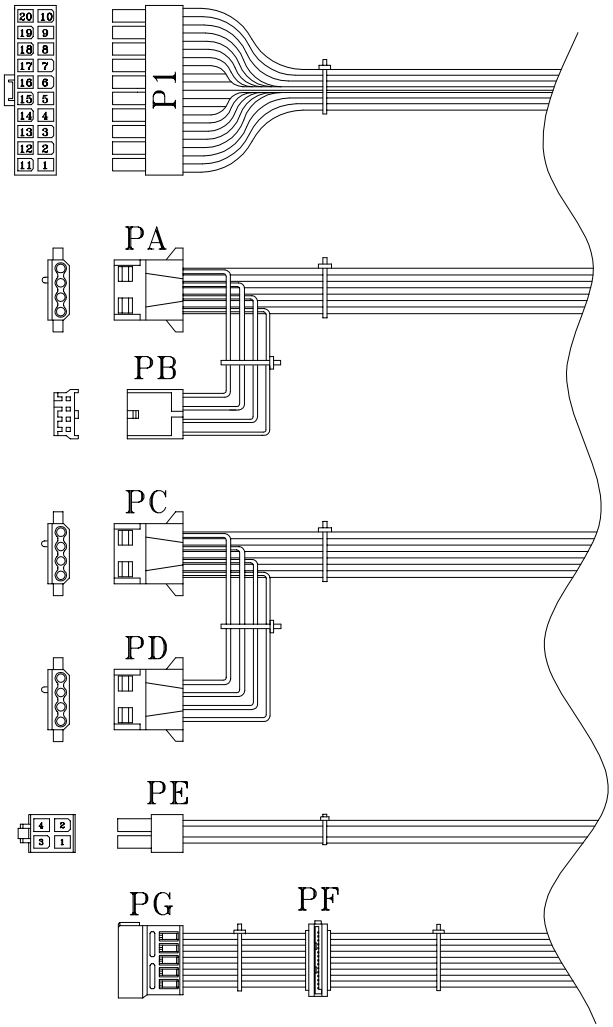
Output Characteristics

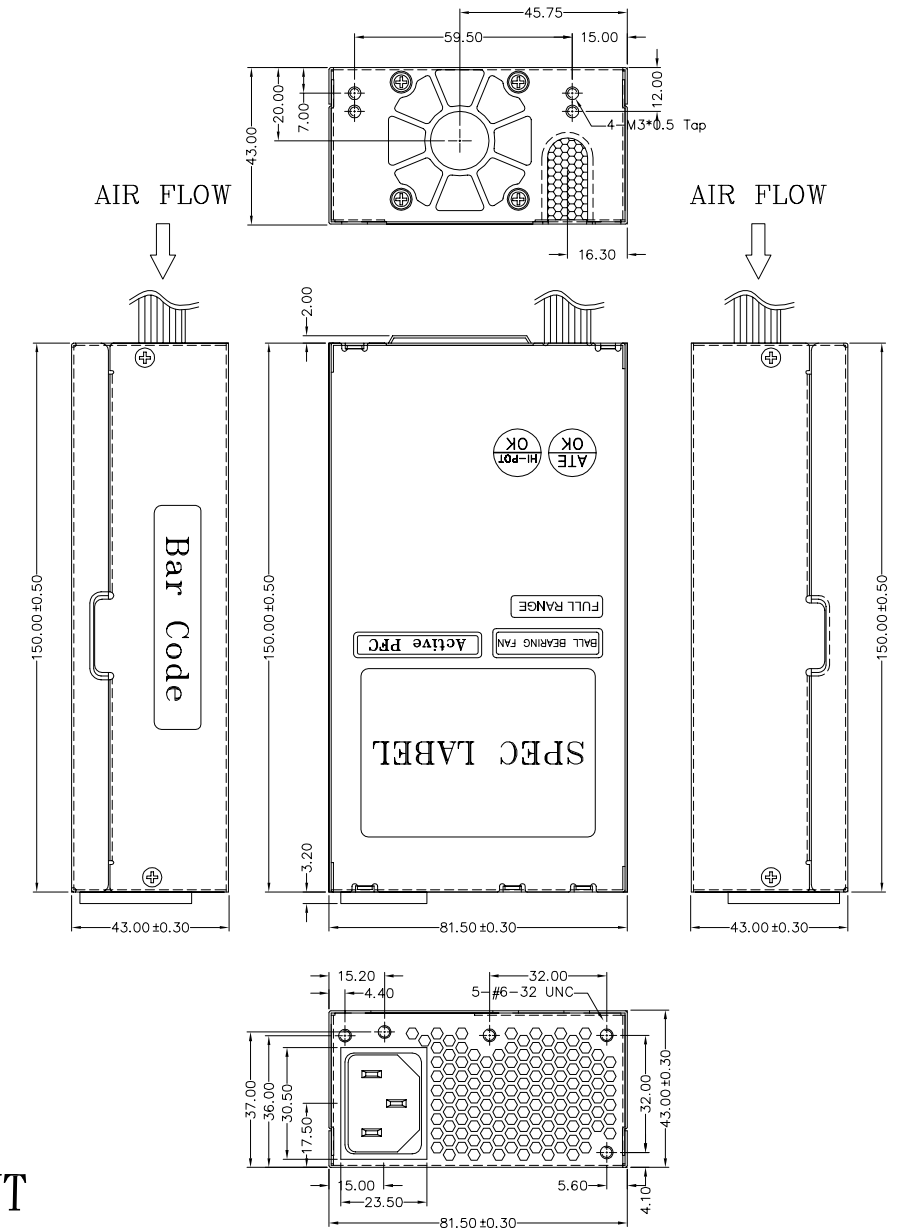
Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	7A	14A	± 5%	± 1%	50mV P-P
+5V	0.5A	8A	16A	± 5%	± 1%	50mV P-P
+12V1	1.0A	8A	16A	± 5%	± 1%	120mV P-P
+12V2	1.0A	5A	10A	± 5%	± 1%	100mV P-P
-12V	0.0A	0.4A	0.8A	± 10%	± 1%	120mV P-P
+5Vsb	0.0A	1.25A	2.5A	± 5%	± 1%	50mV P-P

*220W (50°C): +3.3V, +5V, and +12V total output cannot exceed 207W.
*250W (25°C): +3.3V, +5V, and +12V total output cannot exceed 237W
*+3.3V and +5V total output not exceed 110W
* Total output for this subject power supply is 250W

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REF. D.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	LENGTH
P1	1	+3.3V	ORANGE	20	MOLEX 39-01-2200 or EQUIV.	200±15 mm
	2	+3.3V	ORANGE	20		
	3	COM	BLACK	20		
	4	+5V	RED	20		
	5	COM	BLACK	20		
	6	+5V	RED	20		
	7	COM	BLACK	20		
	8	PW-OK	GRAY	24		
	9	+5Vsb	PURPLE	20		
	10	+12V2	YELLOW	20		
	11	+3.3V	ORANGE	20		
		+3.3VS	BROWN	24		
	12	-12V	BLUE	24		
	13	COM	BLACK	20		
	14	PS-ON	GREEN	24		
	15	COM	BLACK	20		
	16	COM	BLACK	20		
	17	COM	BLACK	20		
	18					
	19	+5V	RED	20		
	20	+5V	RED	20		
PA	1	+12V2	YELLOW	20	AMP 1-480424-0 or EQIV.	250±15 mm
	2	COM	BLACK	20		
	3	COM	BLACK	20		
	4	+5V	RED	20		
PC	1	+12V2	YELLOW	20	AMP 1-480424-0 or EQIV.	310±15 mm
	2	COM	BLACK	20		
	3	COM	BLACK	20		
	4	+5V	RED	20		
PB	1	+12V2	YELLOW	20	AMP 171822-4 or EQIV.	150±10 mm
	2	COM	BLACK	20		
	3	COM	BLACK	20		
	4	+5V	RED	20		
PD	1	+12V2	YELLOW	20	AMP 1-480424-0 or EQIV.	150±10 mm
	2	COM	BLACK	20		
	3	COM	BLACK	20		
	4	+5V	RED	20		
PE	1	COM	BLACK	20	MOLEX 39-01-2040 or EQUIV.	310±15 mm
	2	COM	BLACK	20		
	3	+12V1	Yel/Blk	20		
	4	+12V1	Yel/Blk	20		
PF	1	+12V2	YELLOW	20	CI1271HS0-15P or EQUIV.	310±15 mm
	2	COM	BLACK	20		
	3	+5V	RED	20		
	4	COM	BLACK	20		
	5	+3.3V	ORANGE	20		
PG	1	+12V2	YELLOW	20	CI1270H00-15P or EQUIV.	150±10 mm
	2	COM	BLACK	20		
	3	+5V	RED	20		
	4	COM	BLACK	20		
	5	+3.3V	ORANGE	20		

NOTE:

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

PS:80 PLUS

FSP P/N.:9PA220****

SPI P/N.:SPI220LE5

UNIT:mm

MODEL NO. : SPI220LE5		TITLE: ASSY	SHEET: 1 OF 1	REV:01
R&D	PE	DRAWN	DATE	
			Nov.14.2006	
INTERIOR COUNTERSIGN:			樂家龍	