



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



FSP250-50PLB(1U) (Active PFC & RoHS Compliant)
220/250 Watts, 1U Switching Power Supply

Features

- Complied with ATX and ATX12V 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 UL60950-1, 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: 5A (RMS) @115Vac, 3A (RMS) @230Vac

Inrush Current: 50A Max @115Vac, 80A Max @230Vac cold start

Output Characteristics

Output Voltage	Minimum Load	Maximum Load		Peak Load		Load Reg.	Line Reg.	Ripple & Noise
		250W(25°C)	220W(50°C)	250W(25°C)	220W(50°C)			
+3.3V	0.5A	18.0A	18.0A			± 5%	± 1%	50mV P-P
+5V	0.3A	20.0A	20.0A			± 5%	± 1%	50mV P-P
+12V	1.0A	16.0A	16.0A	18.0A	16.0A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.5A	0.5A			± 10%	± 1%	120mV P-P
+5Vsb	0.0A	2.0A	2.0A	2.5A	2.5A	± 5%	± 1%	50mV P-P

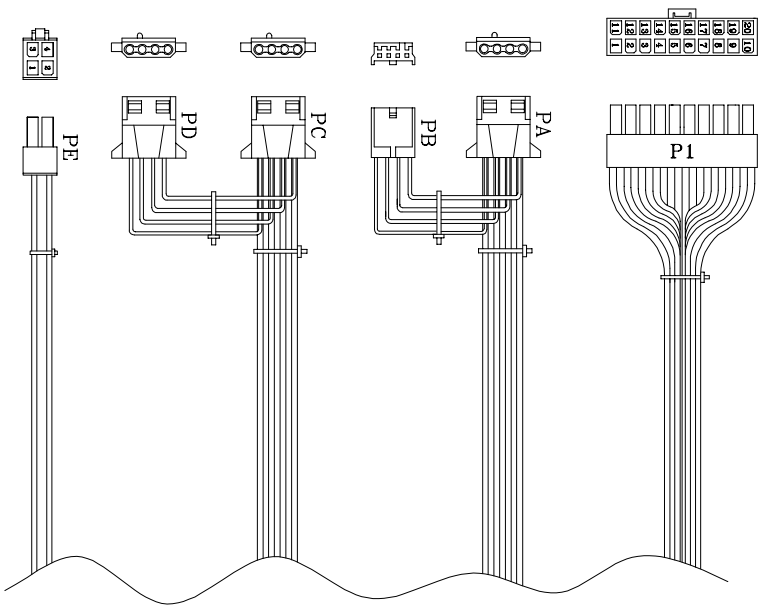
250W(25°C): +5V and +3.3V total output not exceed 115W
 +3.3V, +5V, and +12V total output cannot exceed 236.4W
 220W(50°C): +5V and +3.3V total output not exceed 110W
 +3.3V, +5V, and +12V total output cannot exceed 206.4W

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:** 68% at 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 3.5mA at 264Vac, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 190x100x40.5mm/7.5x3.9x1.6in

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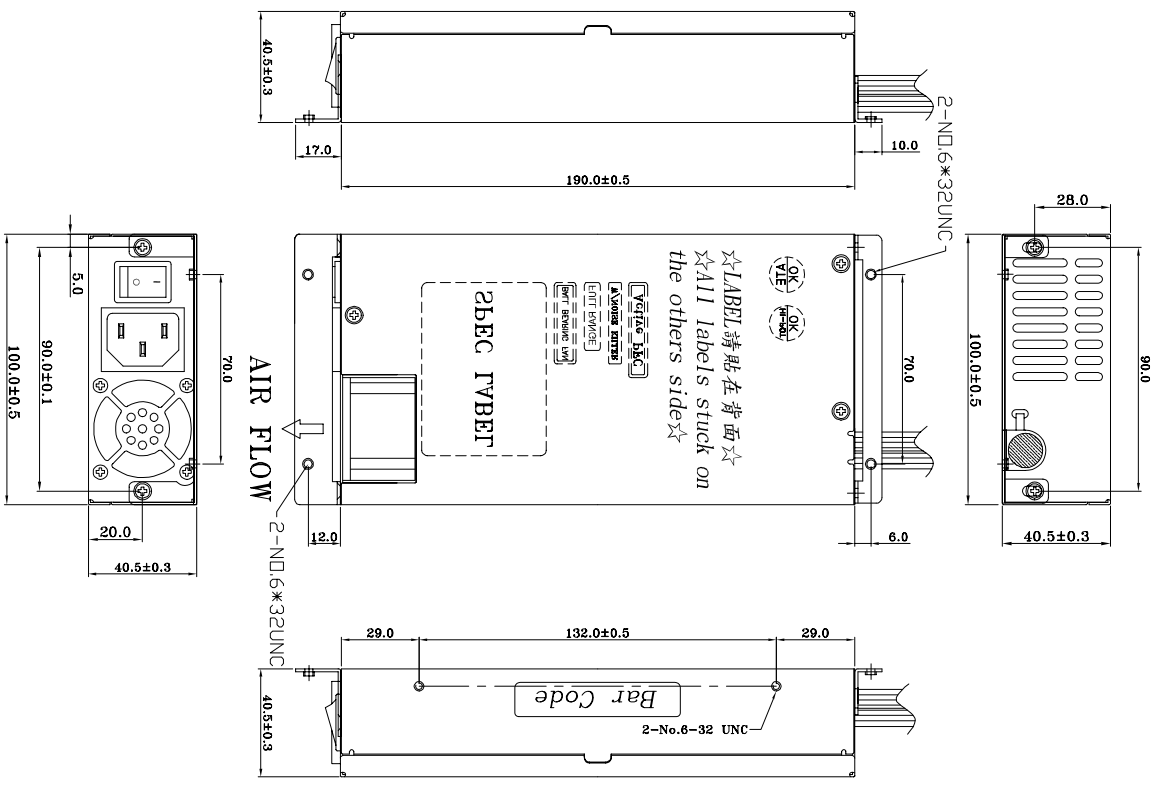
Sparkle Power Inc.
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 17071 Green Drive
 City of Industry, CA 91745
 TEL: 626-839-7180
 FAX: 626-839-3395



2 修改SPI P/N

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

UNIT:mm



REF. D.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	LENGTH	
P1	1	+3.3V	ORANGE	18	MOLEX 400±10 mm 39-01-2200 or EQUIV.		
	2	+3.3V	ORANGE	18			
	3	COM	BLACK	18			
	4	+5V	RED	18			
	5	COM	BLACK	18			
	6	+5V	RED	18			
	7	COM	BLACK	18			
	8	PW-OK	GRAY	22			
	9	+5Vsb	PURPLE	18			
	10	+12V	YELLOW	18			
	11	+3.3V	ORANGE	18			
	12	-12V	BLUE	22			
	13	COM	BLACK	18			
	14	PS-ON	GREEN	22			
	15	COM	BLACK	18			
	16	COM	BLACK	18			
	17	COM	BLACK	18			
	18						
	19	+5V	RED	18			
	20	+5V	RED	18			
PA	1	+12V	YELLOW	18	AMP 480±10 mm -460424-0 or EQUIV.		
	2	COM	BLACK	18			
	3	COM	BLACK	18			
	4	+5V	RED	18			
PB	1	+12V	YELLOW	22	AMP 150±10 mm 171822-4 or EQUIV.		
	2	COM	BLACK	22			
	3	COM	BLACK	22			
	4	+5V	RED	22			
PC	1	+12V	YELLOW	18	AMP 480±10 mm -460424-0 or EQUIV.		
	2	COM	BLACK	18			
	3	COM	BLACK	18			
	4	+5V	RED	18			
PD	1	+12V	YELLOW	18	AMP 150±10 mm -460424-0 or EQUIV.		
	2	COM	BLACK	18			
	3	COM	BLACK	18			
	4	+5V	RED	18			
PE	1	COM	BLACK	20	MOLEX 480±10 mm 39-01-2040 or EQUIV.		
	2	COM	BLACK	20			
	3	+12V	YELLOW	20			
	4	+12V	YELLOW	20			

FSP P/N.:9PA2509015

SPI P/N.:FSP250-50PLB1UR

MODEL NO. : FSP250-50PLB(1U)(S034)	TITLE: ASSY	SHEET: 1 OF 1	REV:02
R&D	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Sep.08.2005
			黃鈺婷

Mechanical Drawing(外觀/機構圖)表單編號7000P-0111