



**Sparkle Power Inc.**  
A Leading Power Supply  
Manufacturer Website:  
[www.sparklepower.com](http://www.sparklepower.com)



## SPI250A8AG

**(80PLUS Gold, RoHS Compliant)**

**250 Watts ATX12V 2.3 Switching Power Supply  
Meet 2010 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 4A @ 115Vac, 2A @ 230Vac

**Inrush Current:** No damage.

### Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
+3.3V	0.1A	4.84A	14/6.67A	±5%	±1%	50mV P-P
+5V	0.2A	3.82A	10.16/15A	±5%	±1%	50mV P-P
+12V1	0.3A	3.43A	17A	±5%	±1%	120mV P-P
+12V2	0.3A	3.43A	17A	±5%	±1%	120mV P-P
-12V	0A	0.15A	0.3A	±10%	±2%	120mV P-P
+5Vsb	0A	1.17A	3.0A	±5%	±1%	50mV P-P

\*+3.3V & +5V total output does not exceed 97W  
when +5V is loaded to 15A, then +3.3V maximum load is 6.67A  
when +3.3V is loaded to 14A, then +5V maximum load is 10.16A  
\*+12V1 & +12V2 total output does not exceed 240W(20A)

### **Sparkle Power Inc.**

#### **Main Office**

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E-MAIL: [info@sparklepower.com](mailto:info@sparklepower.com)

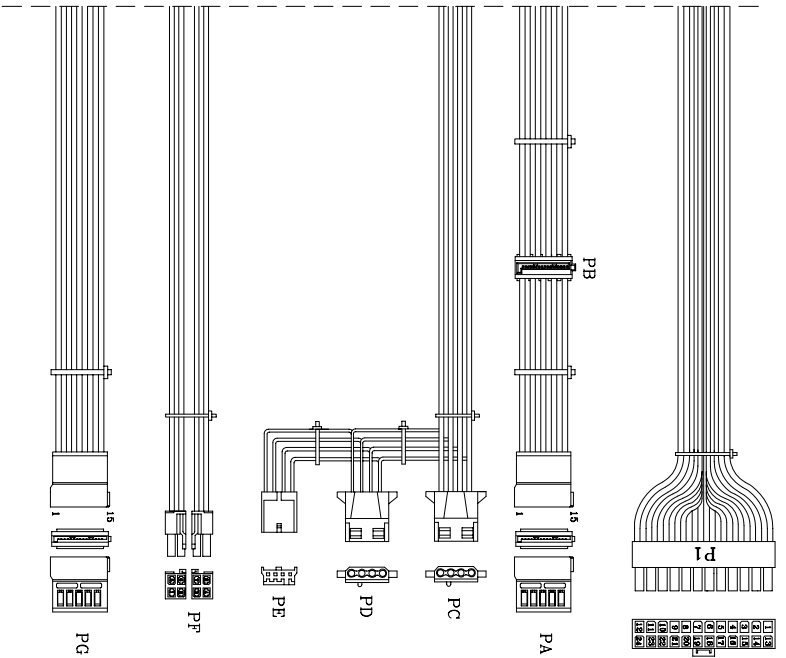
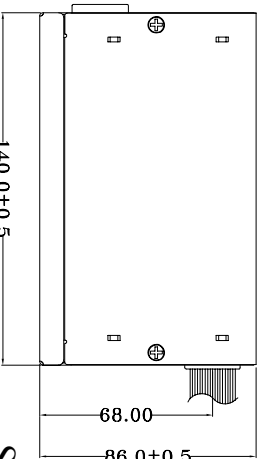
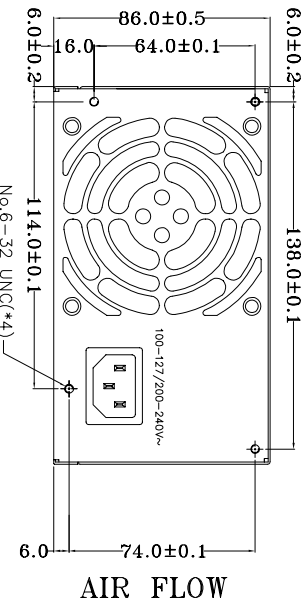
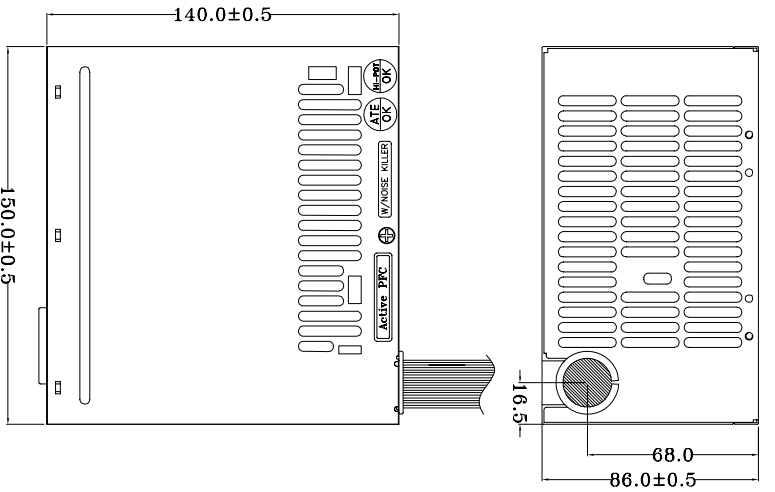
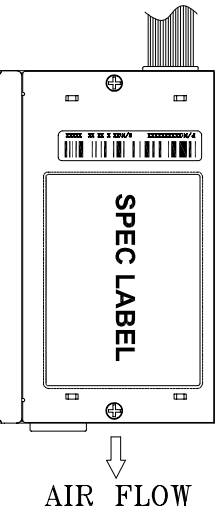
### **Sparkle Power Inc.**

#### **Los Angeles Office**

17071 Green Drive  
City of Industry, CA 91745  
TEL: 626-839-7180  
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REF. ID	PN	SIGNAL	WIRE CODE	GAUGE	CONSTRUCTION	LENGTH	
P1 /24	1	+3.3VDC	ORANGE	18	MOLEX 39-01	350±30mm -10	
	2	+3.3VDC	ORANGE	18	2240 or EQUIV.		
	3	COM	BLACK	18			
	4	+5VDC	RED	18			
	5	COM	BLACK	18			
	6	+5VDC	RED	18			
	7	COM	BLACK	18			
	8	+5VDC	RED	18			
	9	COM	BLACK	18			
	10	+5VDC	RED	18			
	11	+12VDC	YELLOW	18			
	12	+3.3VDC	ORANGE	18			
	13	+3.3VDC	ORANGE	18			
	14	-12VDC	BLUE	24			
	PA	1	COM	GREEN	18		MOLEX 39-01 or EQUIV.
		2	+3.3V	BLACK	18		
		3	+5V	RED	18		
		4	COM	BLACK	18		
		5	COM	BLACK	18		
		6	+3.3V	ORANGE	18		
		7	COM	BLACK	18		
		8	+3.3V	ORANGE	18		
	PB	1	+5V	RED	18		MOLEX 350±30mm or EQUIV.
		2	COM	BLACK	18		
3		+5V	RED	18			
4		COM	BLACK	18			
PC	1	+12V	YELLOW	18	AMP		
	2	COM	BLACK	18	1-480424-0 355±30mm or EQUIV.		
	3	COM	BLACK	18			
	4	+12V	YELLOW	18			
	5	COM	BLACK	18			
PD	1	+12V	RED	18	AMP		
	2	COM	BLACK	18	1-480424-0 150±10mm or EQUIV.		
	3	COM	BLACK	18			
	4	+5V	RED	18			
PE	1	+12V	YELLOW	22	AMP		
	2	COM	BLACK	22	171882-4 150±10mm or EQUIV.		
	3	COM	BLACK	22			
	4	COM	BLACK	18			
PF	1	+12V	RED	18	NST		
	2	COM	BLACK	18	14-4202838 350±30mm or EQUIV.		
	3	COM	BLACK	18			
	4	COM	BLACK	18			
	5	+12V	RED	18			
	6	+12V	RED	18			
	7	+12V	RED	18			
	8	+12V	RED	18			
PG	1	+12V	YELLOW	18	MOLEX 350±30mm or EQUIV.		
	2	COM	BLACK	18			
	3	+5V	RED	18			
	4	COM	BLACK	18			



SPI P/N.: SPI250A8AG

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

2 客户要求變更線材

UNIT:mm

MODEL NO.:	SPI250A8AG		TITLE:	ASSY	
R&D(1)	PE	DRAWN	SHEET:	1 OF 1	
			DATE:	JUL.02.2010	
Mechanical Drawing(外觀/機構圖)表單編號7000P-0111					