



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



## SPI550ACAG

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

**550 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 6A @ 115Vac, 3A @ 230Vac

**Inrush Current:** No damage.

### Output Characteristics

	MINIMUM LOAD	NORMAL LOAD	MAXIMUM LOAD	LOAD REG.	LINE REG.	RIPPLE & NOISE
<b>+3.3V</b>	<b>0.1A</b>	<b>10A</b>	<b>24/6A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>
<b>+5V</b>	<b>0.2A</b>	<b>10A</b>	<b>12.1/24A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>
<b>+12V1</b>	<b>0.1A</b>	<b>8A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>+12V2</b>	<b>0A</b>	<b>8A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>+12V3</b>	<b>0A</b>	<b>8A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>+12V4</b>	<b>0A</b>	<b>8A</b>	<b>18A</b>	<b>±5%</b>	<b>±1%</b>	<b>120mV P-P</b>
<b>-12V</b>	<b>0A</b>	<b>0.25A</b>	<b>0.5A</b>	<b>±10%</b>	<b>±2%</b>	<b>200mV P-P</b>
<b>+5Vsb</b>	<b>0A</b>	<b>1.5A</b>	<b>3.5A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>

\*+12V1,2,3,4 Peak current is 20A (less than 10mS)

\*+5V<sub>sb</sub> peak current is 4A (less than 0.5S)

\*+3.3V & +5V total output does not exceed 140W

when +5V is loaded to 24A, then +3.3V maximum load is 6A  
when +3.3V is loaded to 24A, then +5V maximum load is 12.1A

\*+12V1 & +12V2 & +12V3 & +12V4 total output does not exceed 504W(42A)

### **Sparkle Power Inc.**

#### **Main Office**

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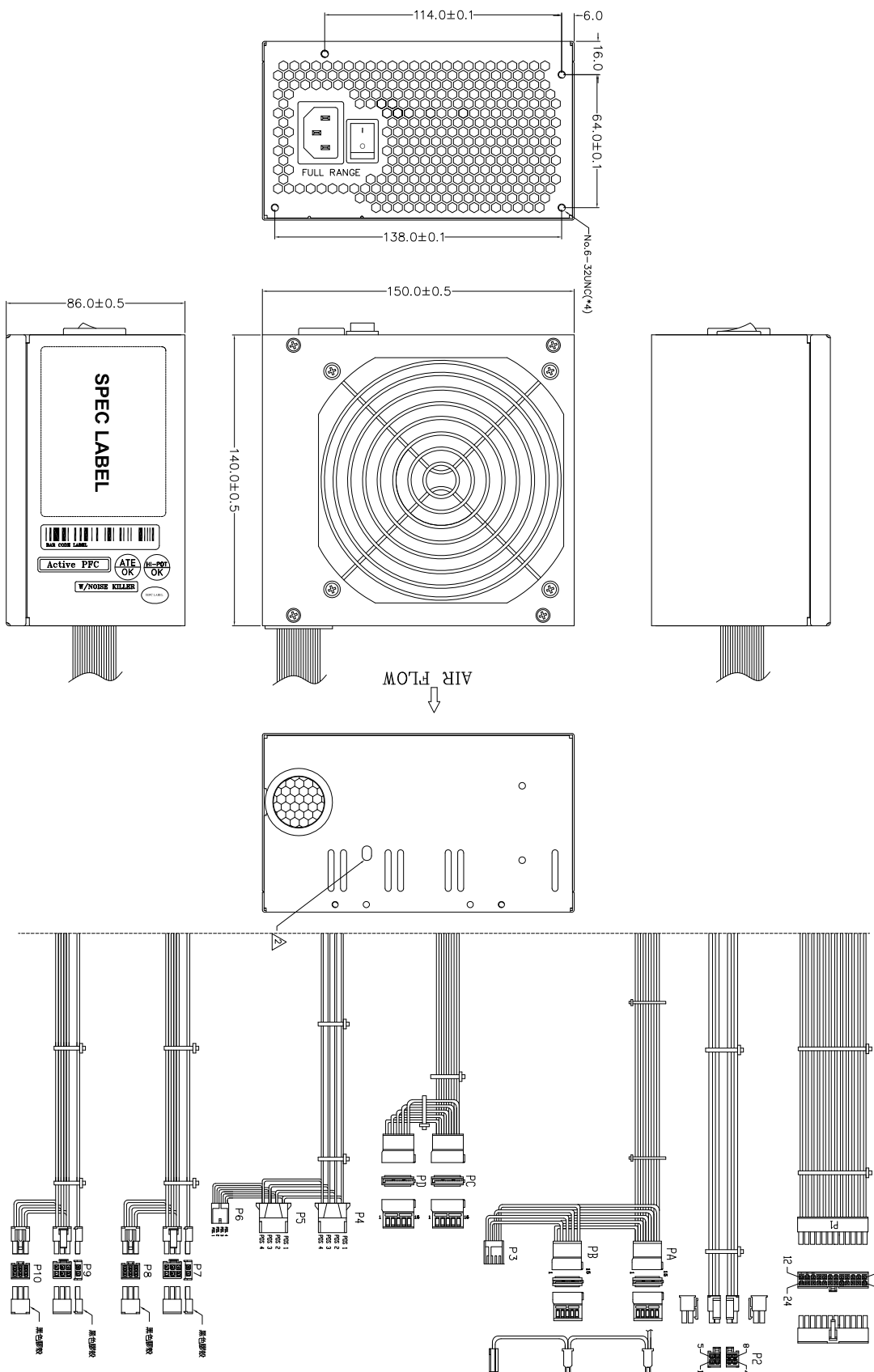
### **Sparkle Power Inc.**

#### **Los Angeles Office**

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REF. ID	NO.	SIGNAL	WIRE COLOR	CONDUCTOR GAUGE	CONDUCTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	WATER-PROOF COIL WIRE	500 ± 28 mm
	2	+5VDC	ORANGE	18	COIL WIRE	
	3	VEE	RED	18	COIL WIRE	
	4	+5VDC	RED	18	COIL WIRE	
	5	COM	BLACK	18	COIL WIRE	
	6	COM	BLACK	18	COIL WIRE	
P2	1	+5VDC	RED	18	COIL WIRE	500 ± 28 mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
	5	COM	BLACK	18	COIL WIRE	
	6	COM	BLACK	18	COIL WIRE	
	7	COM	BLACK	18	COIL WIRE	
	8	COM	BLACK	18	COIL WIRE	
	9	COM	BLACK	18	COIL WIRE	
	10	COM	BLACK	18	COIL WIRE	
P3	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
	5	COM	BLACK	18	COIL WIRE	
	6	COM	BLACK	18	COIL WIRE	
	7	COM	BLACK	18	COIL WIRE	
	8	COM	BLACK	18	COIL WIRE	
	9	COM	BLACK	18	COIL WIRE	
	10	COM	BLACK	18	COIL WIRE	
	11	COM	BLACK	18	COIL WIRE	
	12	COM	BLACK	18	COIL WIRE	
	13	COM	BLACK	18	COIL WIRE	
	P4	1	+5VDC	RED	18	
2		COM	BLACK	18	COIL WIRE	
3		COM	BLACK	18	COIL WIRE	
4		COM	BLACK	18	COIL WIRE	
P5	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
P6	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
P7	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
P8	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
	5	COM	BLACK	18	COIL WIRE	
	6	COM	BLACK	18	COIL WIRE	
P9	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
	5	COM	BLACK	18	COIL WIRE	
	6	COM	BLACK	18	COIL WIRE	
P10	1	+5VDC	RED	18	COIL WIRE	100 ± 10mm
	2	COM	BLACK	18	COIL WIRE	
	3	COM	BLACK	18	COIL WIRE	
	4	COM	BLACK	18	COIL WIRE	
	5	COM	BLACK	18	COIL WIRE	
	6	COM	BLACK	18	COIL WIRE	

UNIT:mm



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

SPI P/N: SPI550ACAG

MODEL NO. : SPI550ACAG	TITLE: ASSY	SHEET: 1 OF 1	REV:02
R&D(1)	PE	DRAWN	DATE
			NDV.10.2010

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