



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



SPI450ACAG

(80PLUS Gold, RoHS Compliant)

**450 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
+3.3V	0.1A	12A	24/3A	±5%	±1%	50mV P-P
+5V	0.2A	12A	11/24A	±5%	±1%	50mV P-P
+12V1	0.1A	8A	18A	±5%	±1%	120mV P-P
+12V2	0A	8A	18A	±5%	±1%	120mV P-P
-12V	0A	0.15A	0.3A	±10%	±2%	200mV P-P
+5Vsb	0A	1.5A	3A	±5%	±1%	50mV P-P

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

*+5V_{sb} peak current is 4A (less than 0.5S)

*+3.3V & +5V total output does not exceed 130W
when +5V is loaded to 24A, then +3.3V maximum load is 3A

when +3.3V is loaded to 24A, then +5V maximum load is 10A
*+12V1 & +12V2 total output does not exceed 420W(35A)

Sparkle Power Inc.

Main Office

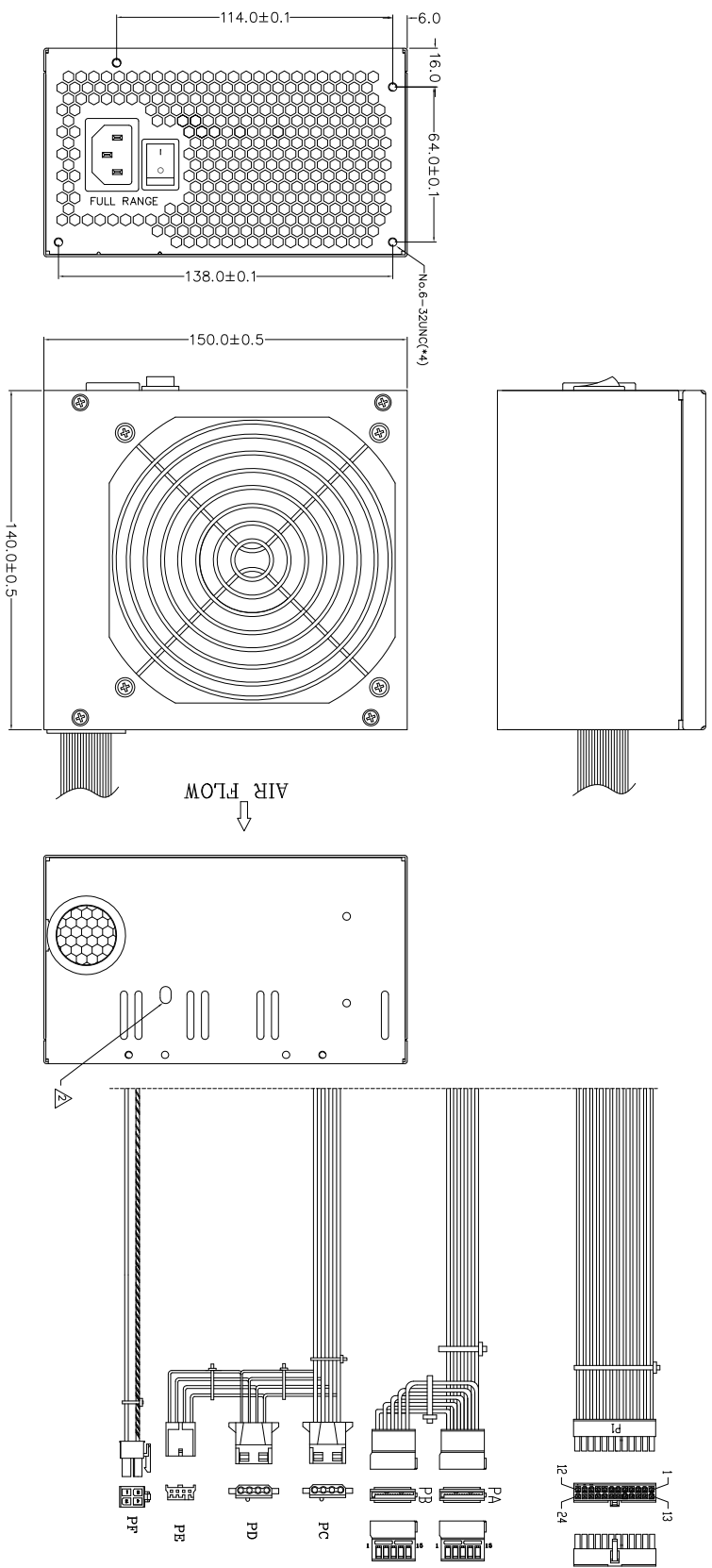
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Sparkle Power Inc.

Los Angeles Office

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WIRE NO.	SIGNAL	WIRE COLOR	CONDUCTOR TYPE	CABLE LENGTH
1	+3.3VDC	ORANGE	18 AWG 300	400 ±38 mm
2	+3.3VDC	ORANGE	18 AWG 300	
3	+5VDC	RED	18 AWG 300	
4	+5VDC	RED	18 AWG 300	
5	COM	BLACK	18 AWG 300	150±10mm
6	+5VDC	RED	18 AWG 300	
7	COM	BLACK	18 AWG 300	
8	+5VDC	RED	18 AWG 300	
9	+5VDC	RED	18 AWG 300	300 ±38 mm
10	+5VDC	RED	18 AWG 300	
11	+5VDC	RED	18 AWG 300	
12	+5VDC	RED	18 AWG 300	
13	+5VDC	RED	18 AWG 300	150±10mm
14	+5VDC	RED	18 AWG 300	
15	+5VDC	RED	18 AWG 300	
16	+5VDC	RED	18 AWG 300	
17	+5VDC	RED	18 AWG 300	300 ±38 mm
18	+5VDC	RED	18 AWG 300	
19	+5VDC	RED	18 AWG 300	
20	+5VDC	RED	18 AWG 300	
21	+5VDC	RED	18 AWG 300	150±10mm
22	+5VDC	RED	18 AWG 300	
23	+5VDC	RED	18 AWG 300	
24	+5VDC	RED	18 AWG 300	
25	+5VDC	RED	18 AWG 300	300 ±38 mm
26	+5VDC	RED	18 AWG 300	
27	+5VDC	RED	18 AWG 300	
28	+5VDC	RED	18 AWG 300	
29	+5VDC	RED	18 AWG 300	150±10mm
30	+5VDC	RED	18 AWG 300	
31	+5VDC	RED	18 AWG 300	
32	+5VDC	RED	18 AWG 300	
33	+5VDC	RED	18 AWG 300	300 ±38 mm
34	+5VDC	RED	18 AWG 300	
35	+5VDC	RED	18 AWG 300	
36	+5VDC	RED	18 AWG 300	



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:SPI1450ACAG

MODEL NO. : SPI1450ACAG	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