



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



## **SPI400ACAG**

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

**400 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>12A</b>	<b>24/3A</b>	<b>±5%</b>	<b>±1%</b>	<b>50mV P-P</b>
<b>+5V</b>	<b>0.2A</b>	<b>12A</b>	<b>8/22A</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>-12V</b>	<b>0A</b>	<b>0.15A</b>	<b>0.3A</b>	<b>±10%</b>	<b>±2%</b>	<b>200mV P-P</b>
<b>+5Vsb</b>	<b>0A</b>	<b>1.5A</b>	<b>3A</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 120W  
when +5V is loaded to 22A, then +3.3V maximum load is 3A  
when +3.3V is loaded to 24A, then +5V maximum load is 8A

\*+12V1 & +12V2 total output does not exceed 384W(32A)

### **Sparkle Power Inc.**

#### **Main Office**

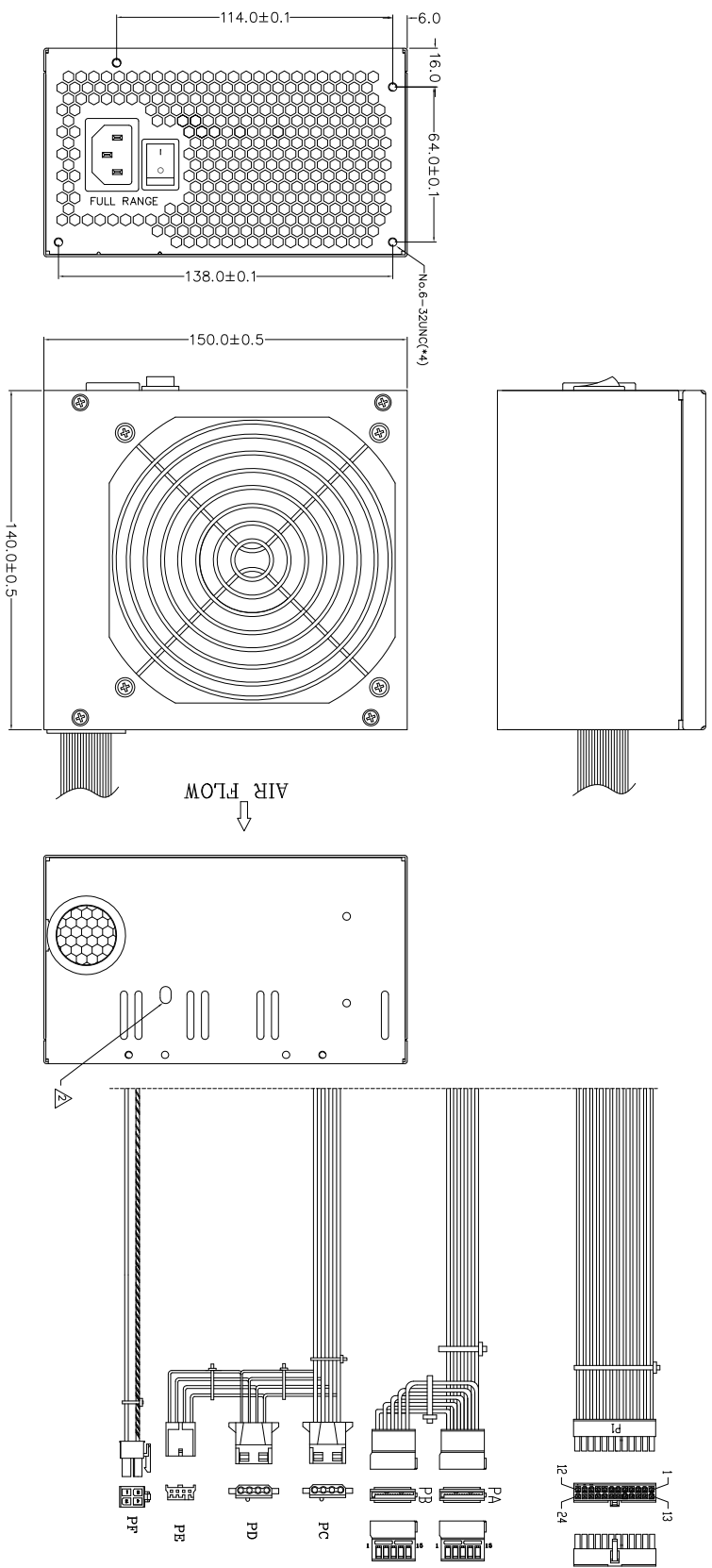
1000 Rock Avenue  
San Jose, CA 95131  
TEL: 408-519-8888  
FAX: 408-519-9999  
E-MAIL: [info@sparklepower.com](mailto:info@sparklepower.com)

### **Sparkle Power Inc.**

#### **Los Angeles Office**

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

REF. ID. NO.	WIRE SIGNAL CODE	WIRE COLOR	CONDUCTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC ORANGE	18 AWG 300	400 ±38 mm
	2	+5VDC ORANGE	18 AWG 300	
	3	RED	18 AWG 300	
	4	+5VDC RED	18 AWG 300	
6	COM	BLACK	18 AWG 300	300 ±38 mm
	7	+5VDC RED	18 AWG 300	
	8	COM BLACK	18 AWG 300	
	9	COM BLACK	18 AWG 300	
0	+5VDC PURPLE	18 AWG 300	300 ±38 mm	
	10	+12V YELLOW		18 AWG 300
	11	+12V YELLOW		18 AWG 300
	12	+3.3VDC ORANGE		18 AWG 300
13	+3.3VDC BROWN	24 AWG 300	300 ±38 mm	
	14	-12VDC BLUE		24 AWG 300
	15	COM BLACK		18 AWG 300
	16	PS-ON GREEN		24 AWG 300
18	COM BLACK	18 AWG 300	300 ±38 mm	
	19	COM BLACK		18 AWG 300
	20	COM BLACK		18 AWG 300
	21	+5VDC RED		18 AWG 300
PA	22	+5VDC RED	18 AWG 300	300 ±38 mm
	23	+5VDC RED	18 AWG 300	
	24	COM BLACK	18 AWG 300	
	25	+3V OVIANGE	18 AWG 300	
PB	1	+3V OVIANGE	18 AWG 300	150±10mm
	2	COM BLACK	18 AWG 300	
	3	COM BLACK	18 AWG 300	
	4	+3V OVIANGE	18 AWG 300	
PC	1	+12V YELLOW	18 AWG 300	300 ±38 mm
	2	COM BLACK	18 AWG 300	
	3	+5V RED	18 AWG 300	
	4	+5V RED	18 AWG 300	
PD	1	+12V YELLOW	18 AWG 300	150±10mm
	2	COM BLACK	18 AWG 300	
	3	COM BLACK	18 AWG 300	
	4	+12V YELLOW	18 AWG 300	
PE	1	+12V YELLOW	22 AWG 150±4	150±10mm
	2	COM BLACK	22 AWG 150±4	
	3	COM BLACK	22 AWG 150±4	
	4	COM BLACK	22 AWG 150±4	
PF	1	COM BLACK	18 AWG 300	350 ±38 mm
	2	COM YEL/BLACK	18 AWG 300	
	3	+12V YEL/BLACK	18 AWG 300	
	4	+12V YEL/BLACK	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: SP1400ACAG

MODEL NO. : SP1400ACAG	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