



## Sparkle Power Inc.

A Leading Power Supply manufacturer  
Web site: [www.sparklepower.com](http://www.sparklepower.com)



### **FSP400-60GLC (With Active PFC)** **400 Watts ATX12V-2.01, Switching Power Supply** Meet **Green Power** / **Blue Angel** / **EPA**

#### 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 and CISPR 22 Class B
- 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, CSA C22.2, TUV or VDE, NEMKO (CB Report), IEC 60950 and CE

#### Input Characteristics

**Input Range:** 90~265V AC, Full Input Range

**Frequency:** 47~63Hz

**Input Current:** 5A (RMS) @115V AC, 2.5A (RMS) @230VAC

**Inrush Current:** No damage, typical 100A Max at cold start

#### Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	15A	30A	± 5%	± 1%	50mV P-P
+5V	0.3A	15A	30A	± 5%	± 1%	50mV P-P
+12V1DC	1.0A	7A	14A	± 5%	± 1%	120mV P-P
+12V2DC	1.0A	7.5A	15A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.4 A	0.8 A	± 10%	± 1%	120mV P-P
+5Vsb	0.0A	1.0 A	2.0 A	± 5%	± 1%	50mV P-P

\*+3.3V and +5V total output not exceed 152W

\*Total output for this subject power supply is 400W

#### 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:** Primary to frame ground 1800V AC for 1 second
- **Efficiency:** min **80%** at 230VAC & **75%** at 115VAC main voltage and frequency with maximum load on all output
- **Rise Time:** Less than 20ms
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ms to 500 ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 3.5mA at 115V AC/60Hz
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x140mm/5.9"x3.4"x5.5" inches

#### **Sparkle Power Inc.**

##### **Main Office**

1000 Rock Avenue  
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E-MAIL: [info@sparklepower.com](mailto:info@sparklepower.com)

#### **Sparkle Power Inc.**

##### **Los Angeles Office**

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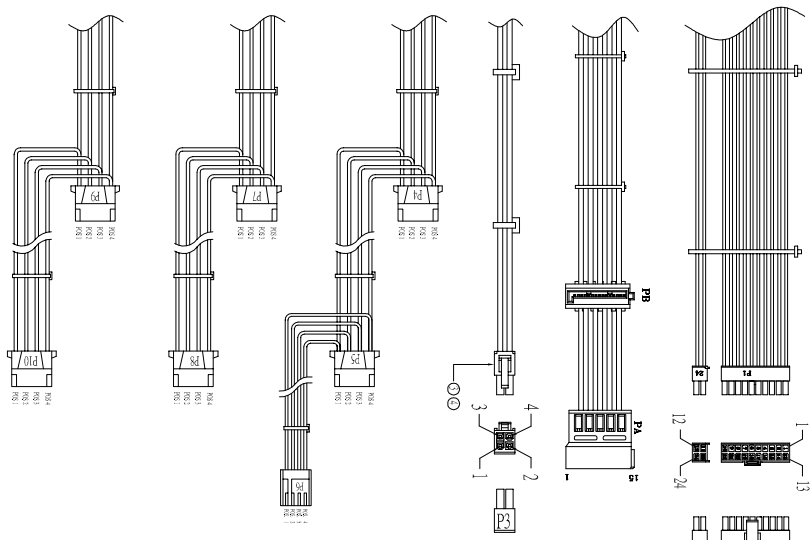
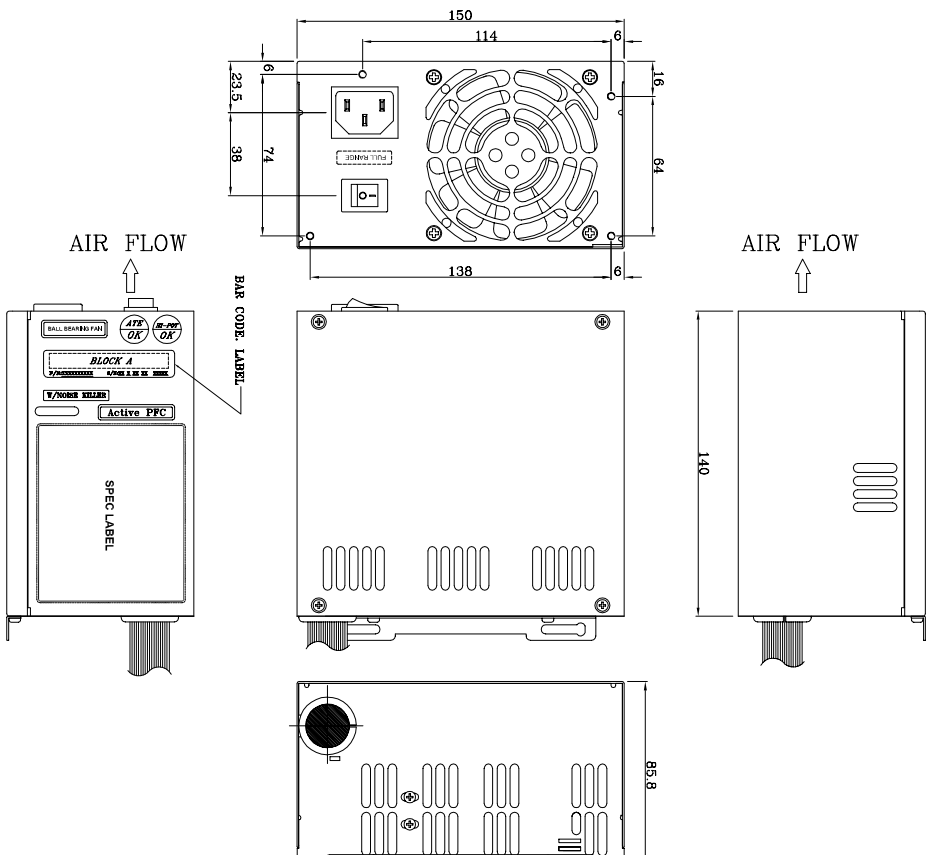
#### **Sparkle Power Inc.**

##### **Colorado Office**

1316 Indian Paintbrush Lane  
Longmont, CO 80503  
TEL: 303-776-3281  
FAX: 303-776-7645

REF. ID.	PIN NO.	SIGNAL	WIRE COLOR	GUAGE	CONNECTOR TYPE	CABLE LENGTH
P1 /24	1	+3.3VDC	ORANGE	18	MOLLEX C11270H00 200±10mm	500 + <sup>±20</sup> mm
	2	+3.3VDC	ORANGE	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
	5	COM	BLACK	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PW-ON	GRAY	24		
	9	+5Vsb	PURPLE	20		
	10	+12V1	YELLOW	18		
	11	+12V1	YELLOW	18		
	12	+3.3VDC	ORANGE	18		
	13	+3.3VDC	ORANGE	18		
	14	-12VDC	BLUE	24		
	16	COM	BLACK	18		
	17	PS-ON	GREEN	24		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	20	COM	BLACK	18		
	21	+5VDC	RED	18		
	22	+5VDC	RED	18		
	23	+5VDC	RED	18		
	24	COM	BLACK	18		
	PA	1	+3.3V	ORANGE		
2		COM	BLACK	18		
3		+5V	RED	18		
4		COM	BLACK	18		
5		+12V1	YELLOW	18		
PB	1	+3.3V	ORANGE	18	MOLLEX C11271HS0 15P	500 + <sup>±20</sup> mm
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
P3	1	+12V1	YELLOW	18	MOLLEX 39-01-2040 or EQUIV.	500 + <sup>±20</sup> mm
	2	COM	BLACK	18		
	3	+12V2	YEL/BLK	16		
	4	+12V2	YEL/BLK	16		
P4	1	+12V1	YELLOW	18	MOLLEX 1-480424-0 or EQUIV.	430 + <sup>±20</sup> mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
P7	1	+12V1	YELLOW	18	MOLLEX 1-480424-0 or EQUIV.	430 + <sup>±20</sup> mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
P9	1	+12V1	YELLOW	18	MOLLEX 1-480424-0 or EQUIV.	430 + <sup>±20</sup> mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
P5	1	+12V1	YELLOW	18	MOLLEX 1-480424-0 or EQUIV.	430 + <sup>±20</sup> mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
P10	1	+12V1	YELLOW	18	MOLLEX 171822-4 or EQUIV.	200±10mm
	2	COM	BLACK	20		
	3	COM	BLACK	20		
	4	+12V1	YELLOW	20		

UNIT:mm



NOTE:

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

P/N.:9PA4001701  
SPI P/N.:FSP400GLCR-B204

MODEL NO. :FSP400-60GLC(S031)	TITLE: ASSY	SHEET: 1 OF 1	REV:1.3
R&D	PE	CHECKED	DESIGN
INTERIOR COUNTERSIGN:			
			JAN.09.2006
			劉啓全