



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



**FSP460-60GLC (With Active PFC)**  
**460 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
- Meet Blue Angel & EPA requirement.
- 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 and CISPR 22 Class B
- Approved by UL60950, CSA C22.2, TUV or VDE, NEMKO

**Input Characteristics**

**Input Range:** 90~265V AC, Full Input Range  
**Frequency:** 47~63Hz  
**Input Current:** 5.5A (RMS) @115V AC, 3A (RMS) @230VAC  
**Inrush Current:** 100A(Cold) & 120A(Warm) Max on 115Vac/60Hz

**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	8A	16A	± 5%	± 1%	120mV P-P
+12V2DC	1.0A	9A	18A	± 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	2.5 A	± 5%	± 1%	50mV P-P

\*+3.3V and +5V total output not exceed 152W  
 \*Total output for this subject power supply is 460W

**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:** 80% min on 230AC/50Hz & 75% min on 115VAC/60Hz at full load
- **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

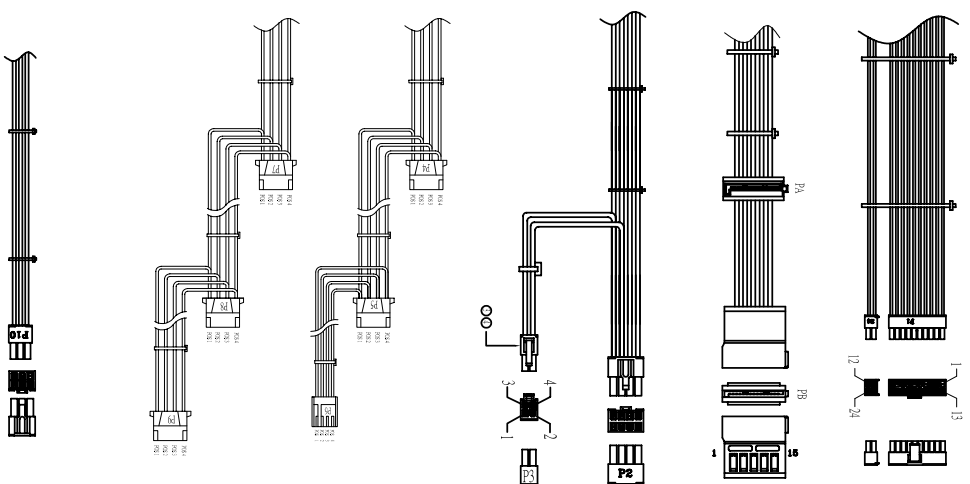
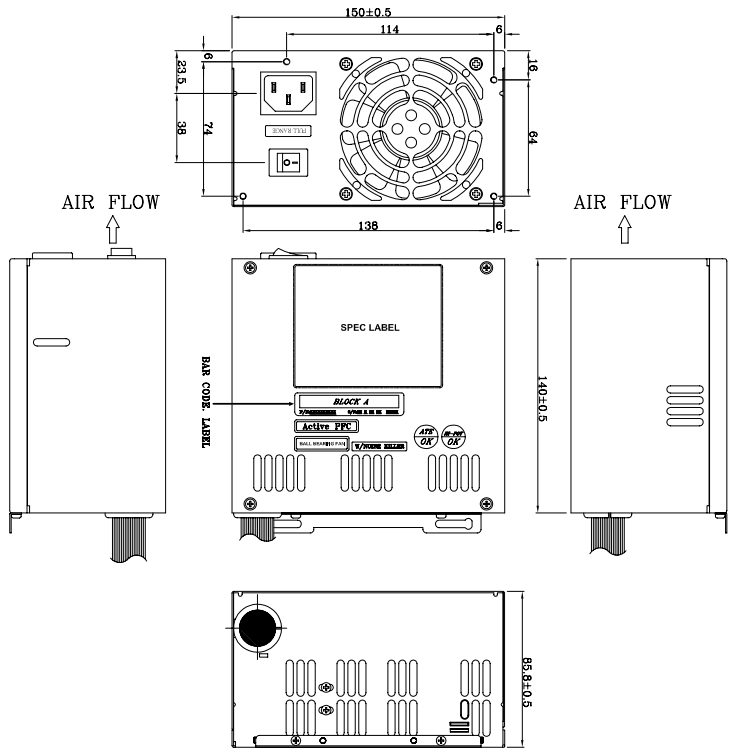
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REF. ID.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1 /24	1	+3.3VDC	ORANGE	18	MOLEX 7PSE-090177 +3.3VDC/5VDC or EQUIV.	500 ±10 mm
	2	+3.3VDC	ORANGE	18		
	3	COM	BLACK	18		
	4	+5VDC	RED	18		
	5	COM	BLACK	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PS-ON	GRAY	24		
	9	+5Vsb	PURPLE	24		
	10	+12V1	YELLOW	18		
	11	+12V1	YELLOW	18		
	12	+3.3VDC	ORANGE	18		
	13	+3.3VDC	ORANGE	18		
	14	+5.3Vsb	BROWN	24		
	15	-12VDC	BLUE	24		
	16	PS-ON	GREEN	24		
	17	COM	BLACK	18		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	PA	20	COM	BLACK		
1		+3.3V	ORANGE	18		
2		COM	BLACK	18		
3		+5V	RED	18		
PB	4	COM	BLACK	18	MOLEX CL1270H00 18P or EQUIV.	200 ±10 mm
	1	+12V1	YELLOW	18		
	2	COM	BLACK	18		
	3	+5V	RED	18		
P2	4	COM	BLACK	18	MOLEX 39-01- 2090 or EQUIV.	500 ±10 mm
	1	COM	BLACK	18		
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	COM	BLACK	18		
	5	+12V2	YEL/BLK	18		
	6	+12V2	YEL/BLK	18		
P3	7	+12V2	YEL/BLK	18	MOLEX 39-01- 2040 or EQUIV.	200 ±10 mm
	1	COM	BLACK	18		
	2	COM	BLACK	18		
	3	+12V2	YEL/BLK	18		
P4	4	+12V1	YELLOW	18	MOLEX 1-480424-0 or EQUIV.	430 ±10 mm
	1	COM	BLACK	18		
	2	COM	BLACK	18		
	3	+5V	RED	18		
P5	4	+12V1	YELLOW	18	MOLEX 1-480424-0 or EQUIV.	200 ±10 mm
	1	COM	BLACK	18		
	2	COM	BLACK	18		
	3	COM	BLACK	18		
P6	4	+5V	RED	20	MOLEX 171822-4 or EQUIV.	200 ±10 mm
	1	COM	BLACK	20		
	2	COM	BLACK	20		
	3	COM	BLACK	20		
P10	4	+12V1	YELLOW	18	MOLEX 455590002 or EQUIV.	500 ±10 mm
	1	+12V1	YELLOW	18		
	2	+12V1	YELLOW	18		
	3	+12V1	YELLOW	18		
	4	COM	BLACK	18		
	5	COM	BLACK	18		

UNIT:mm



NOTE:

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

MODEL NO. : FSP460-60GLC(S031)	TITLE: ASSY	SHEET: 1 OF 1	REV: 09
R&D	PE	CHECKED	DESIGN
INTERIOR COUNTERSIGN:			

P/N.:9PA4601001  
SPI P/N.:FSP460GLCR-B204

MAY.10.2006

高湘珠