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Sparkle Power Inc.

A Leading Power Supply manufacturer
Web site: 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

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

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

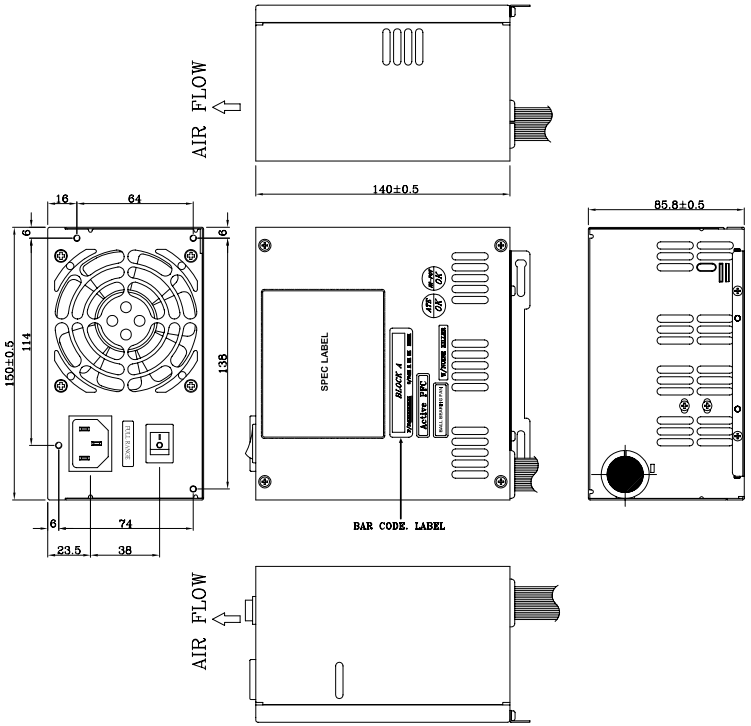
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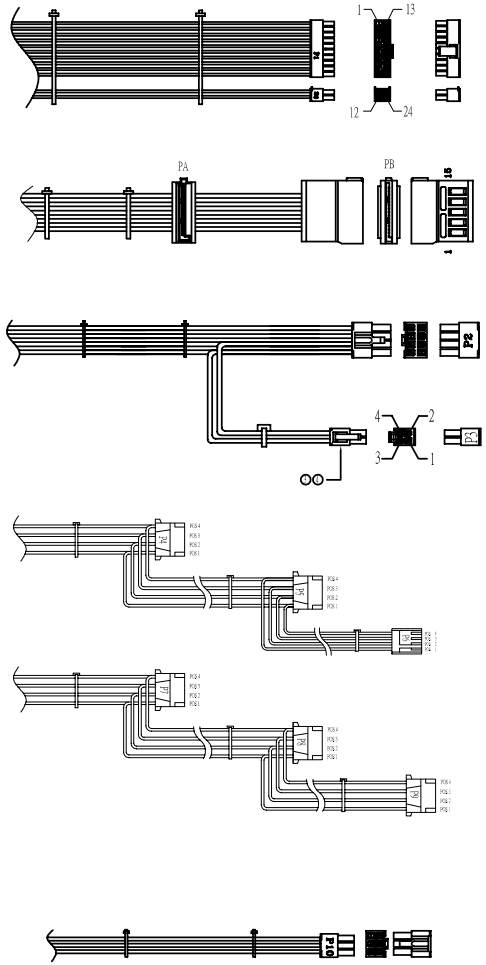
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SPI Electronic Co., Ltd.

REF. ID.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1 /24	1	+3.3VDC	ORANGE	18	H756-20N(LTT) +H756-04N(LTT) or EQUIV.	500 +20 -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	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		
		+3.3VSense	BROWN	24		
	14	-12VDC	BLUE	24		
	15	COM	BLACK	18		
	16	PS-ON	GREEN	24		
	17	COM	BLACK	18		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	20					
	21	+5VDC	RED	18		
	22	+5VDC	RED	18		
	23	+5VDC	RED	18		
	24	COM	BLACK	18		
PA	1	+3.3V	ORANGE	18	MOLEX CL1271HS0 15P or EQUIV.	500 +20 -10 mm
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
	5	+12V1	YELLOW	18		
PB	1	+3.3V	ORANGE	18	MOLEX CL1270H00 15P or EQUIV.	200±10mm
	2	COM	BLACK	18		
	3	+5V	RED	18		
	4	COM	BLACK	18		
	5	+12V1	YELLOW	18		
P2	1	COM	BLACK	18	MOLEX 39-01-2080 or EQUIV.	500 +20 -10 mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	COM	BLACK	18		
	5	+12V2	YEL/BLK	18		
	6	+12V2	YEL/BLK	18		
	7	+12V2	YEL/BLK	18		
	8	+12V2	YEL/BLK	18		
P3	1	COM	BLACK	18	MOLEX 39-01-2040 or EQUIV.	200±10mm
	2	COM	BLACK	18		
	3	+12V2	YEL/BLK	18		
	4	+12V2	YEL/BLK	18		
P4 P7	1	+12V1	YELLOW	18	MOLEX 1-480424-0 or EQUIV.	430 +20 -10 mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
P5 P8 P9	1	+12V1	YELLOW	18	MOLEX 1-480424-0 or EQUIV.	200±10mm
	2	COM	BLACK	18		
	3	COM	BLACK	18		
	4	+5V	RED	18		
P6	1	+5V	RED	20	MOLEX 171822-4 or EQUIV.	200±10mm
	2	COM	BLACK	20		
	3	COM	BLACK	20		
	4	+12V1	YELLOW	20		
P10	1	+12V1	YELLOW	18	MOLEX 455590002 or EQUIV.	500 +20 -10 mm
	2	+12V1	YELLOW	18		
	3	+12V1	YELLOW	18		
	4	COM	BLACK	18		
	5	COM	BLACK	18		
	6	COM	BLACK	18		





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

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

UNIT:mm

MODEL NO. : FSP460-60GLC(S031)	TITLE: ASSY			SHEET: 1 OF 1	REV:09
R&D	PE	CHECKED	DESIGN	DRAWN	DATE
					MAY.10.2006
INTERIOR COUNTERSIGN:					高湘琳

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