



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

FSP180-50PLA (Active PFC & RoHS Compliant)
180 Watts Flex ATX12V Switching Power Supply

Features

- Complied with Flex 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 115Vac operation, and CISPR 22 class B at 230Vac operation
- 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 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

Input Characteristics

Input Range: 90 ~ 265Vac (RMS), Full Range Input

Frequency: 47 ~ 63Hz

Input Current: 4A (RMS) @115Vac, 2A (RMS) @230Vac

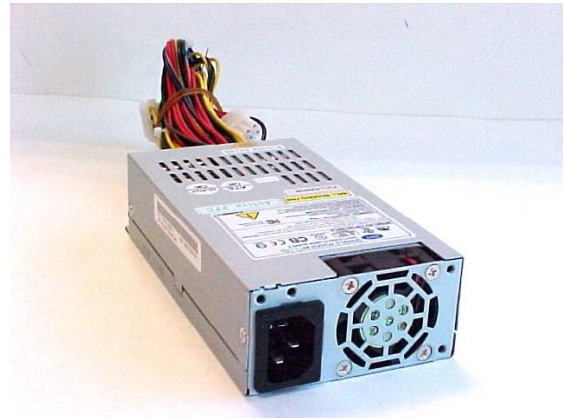
Inrush Current: 50A Max @115Vac, 80A Max @230Vac cold start

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Peak	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.3A	16.8A		± 5%	± 1%	50mV P-P
+5V	0.3A	12A		± 5%	± 1%	50mV P-P
+12V	1.5A	10A	13A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.8A		± 10%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A		± 5%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 61W

*+3.3V, +5V, and +12V total output cannot exceed 165W

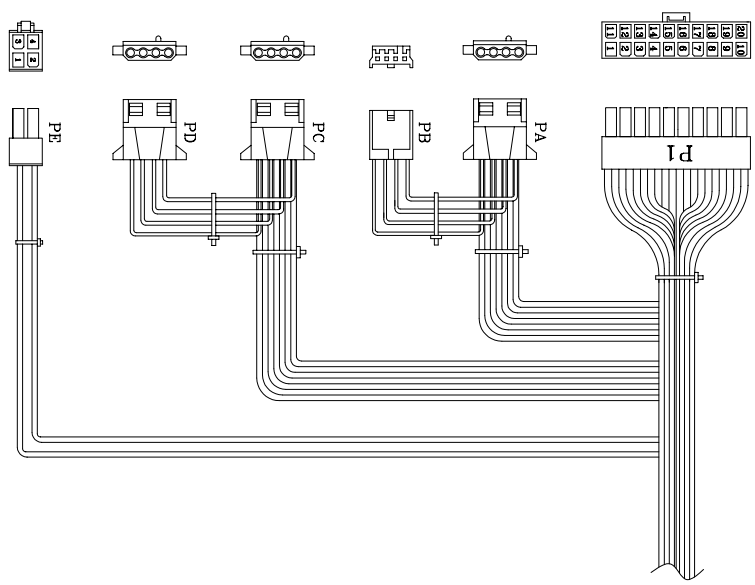


Specification

- **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:** Input to frame ground 1800 VAC for 2 second
- **Efficiency:** 68% at minimum measured at nominal AC main voltage and frequency with maximum load on all outputs
- **Rise time:** Less than 20ms
- **Hold-up Time:** 17ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Not exceed 3.5mA at 264Vac, 50Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 150x81.5x40.5mm/6x3.2x1.6in

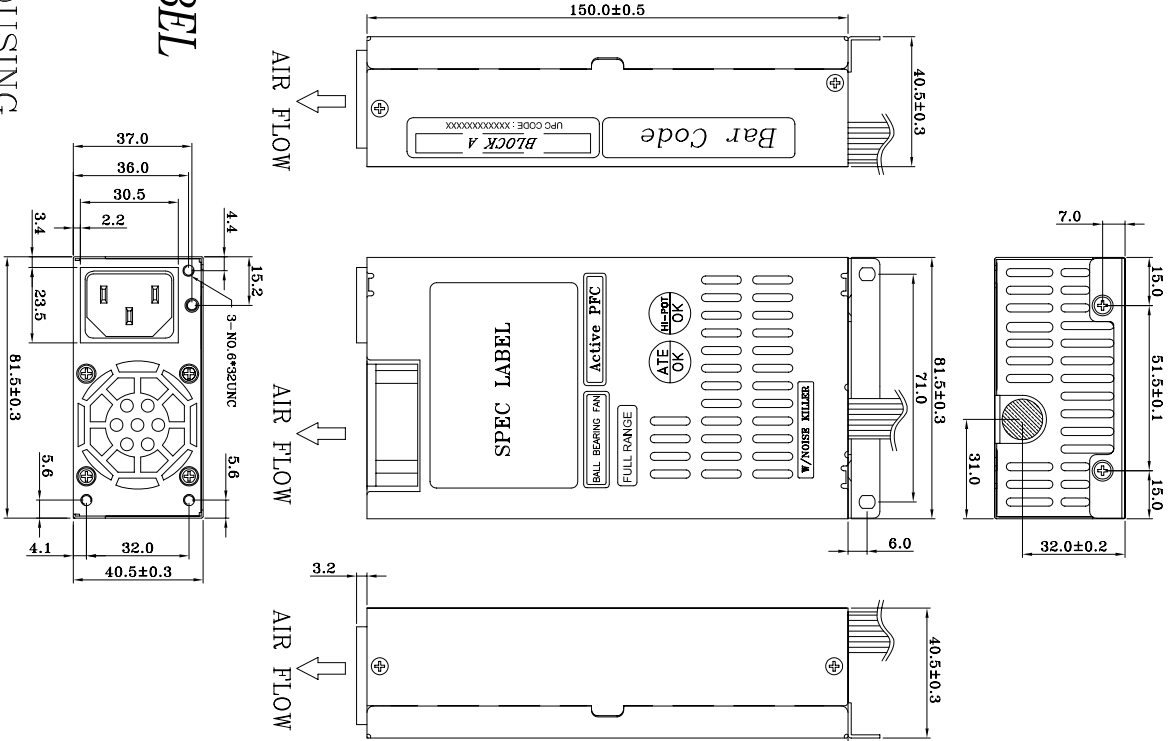
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3 增加UPC CODE LABEL

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



REF. D.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	LENGTH
	1	+3.3V	ORANGE	18	MOLEX	200±15
	2	+3.3V	ORANGE	18	59-01-	2200±1mm
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
	5	COM	BLACK	18		
	6	+5V	RED	18		
	7	COM	BLACK	18		
	8	PW-OK	GRAY	22		
	9	+5Vsb	PURPLE	18		
	10	+12V	YELLOW	18		
	11	+3.3V	ORANGE	18		
	12	+3.3V	BROWN	22		
	13	COM	BLACK	18		
	14	PS-ON	GREEN	22		
	15	COM	BLACK	18		
	16	COM	BLACK	18		
	17	COM	BLACK	18		
	18	NC				
	19	+5V	RED	18		
	20	+5V	RED	18		
	1	+12V	YELLOW	18	AMP	250±15
	2	COM	BLACK	18	1-480424-0	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
	1	+12V	YELLOW	18	AMP	310±10
	2	COM	BLACK	22	17822-4	
	3	COM	BLACK	22	1-480424-0	
	4	+5V	RED	22	or EQUIV.	
	1	+12V	YELLOW	18	AMP	150±10
	2	COM	BLACK	18	1-480424-0	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
	1	COM	BLACK	20	MOLEX	310±10
	2	COM	BLACK	20	59-01-	
	3	+12V	YELLOW	20	2040	
	4	+12V	YELLOW	20	or EQUIV.	

FSP P/N.:9PA1802274
SPI P/N.:FSP180-50PLAR

MODEL NO. : FSP180-50PLA(S03F)	TITLE: ASSY	SHEET: 1 OF 1	REV: 03
R&D(2)	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Nov.10.2006
			黃鈺婷

UNIT:mm

Mechanical Drawing(外觀/機構圖)表單編號7000P-0111