



Sparkle Power Inc.

A Leading Power Supply manufacturer
Web site: www.sparklepower.com



FSP300-60THA

300 Watts ATX12V 2.0 Switching Power Supply

Features

- Complied with ATX12V 2.0 standard
- 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 UL 60950, CSA C22.2 Level 3, TUV EN60950, NEMKO (CB Report)

Input Characteristics

Input Range: +/-10% of 115Vrms or 230Vrms, Manual selection

Frequency: 47~63Hz

Input Current: 7A (RMS) @115V AC, 3.5A (RMS) @230V AC

Inrush Current: 80A max cold start, 100A warm measured at 264rms/50Hz

Specification

- **Temperature Range:** Operating 0° C ~ +25° C on full load; De-rate 2W/C from +50° C to +25° C; storage & shipping -20° C ~ +65° C
- **Humidity:** 90% on operating and 95% on storage
- **Dielectric Withstand:** Input to frame ground 1800V AC for 1 second
- **Efficiency:** 70% at minimum measured at nominal AC main voltage and frequency with maximum load on all output
- **Rise Time:** Less than 20ms on all output
- **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:** Not exceed 3.5mA
- **MTBF:** 100,000 hours on maximum load at +25° C degree
- **Dimension (WxHxL):** 150x86x140mm/6"x3.4"x5.5" inches

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	6/20A	± 5%	± 1%	50mV P-P
+5V	1.0A	20/10.8A	± 5%	± 1%	50mV P-P
+12V1	1.0A	8A	± 5%	± 1%	120mV P-P
+12V2	1.0A	14A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.8A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	2.0 A	± 5%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 120W

*When +3.3V is load on 20A, the +5V maximum load is 10.8A

*When +3.3V is load on 6A, the +5V maximum load is 20A

*+3.3V, +5V, +12V1, and +12V2 total output not exceed 280W

Sparkle Power Inc.

Main Office

1000 Rock Avenue
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Sparkle Power Inc.

Los Angeles Office

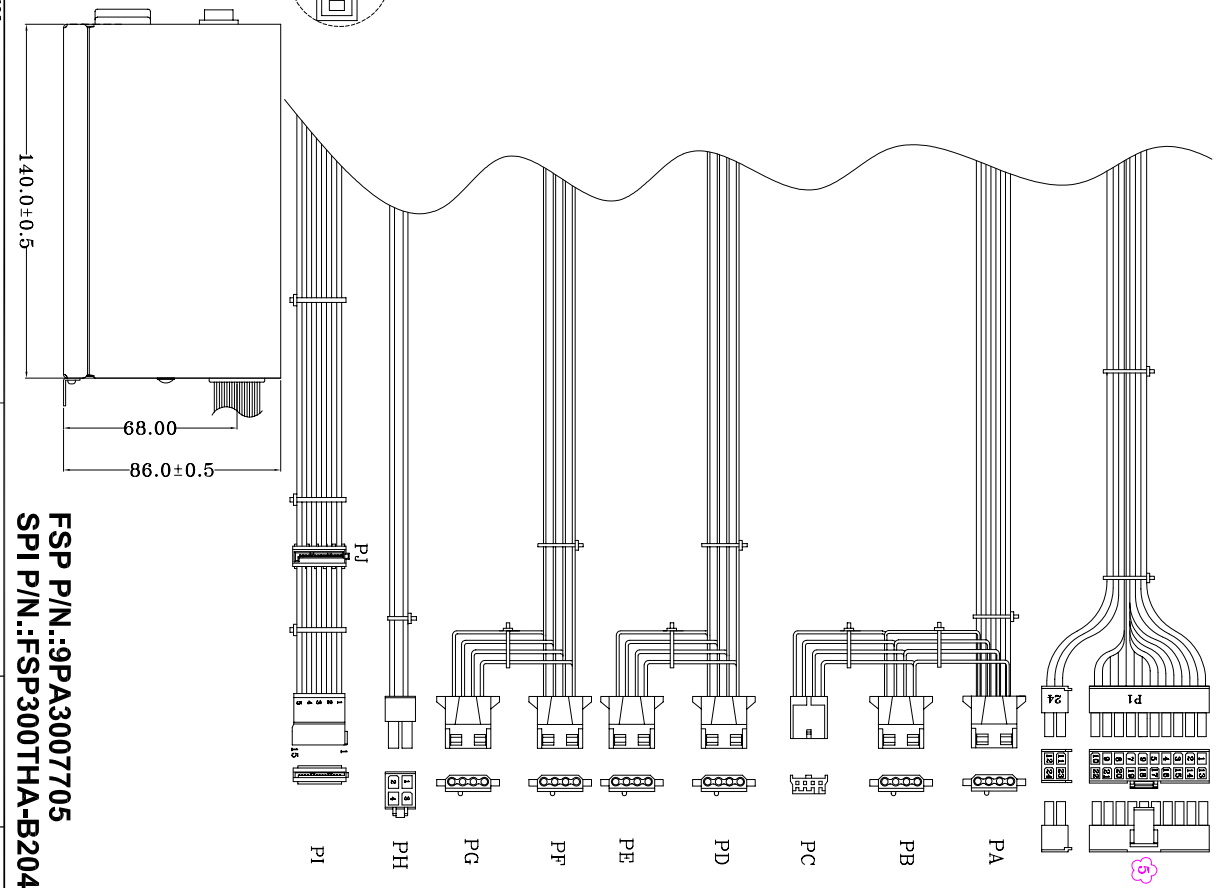
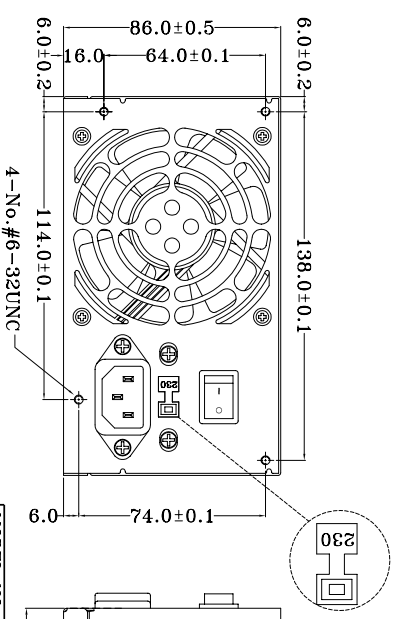
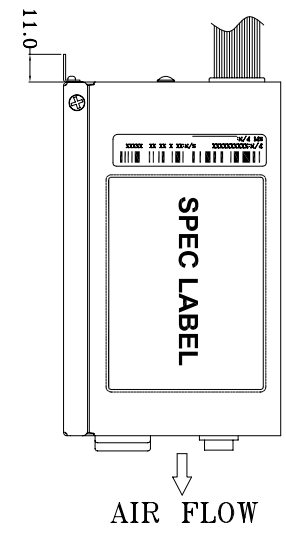
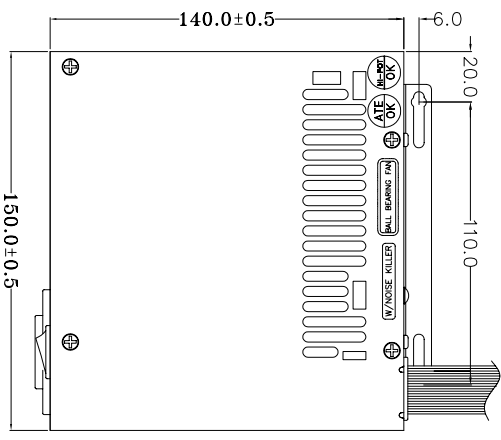
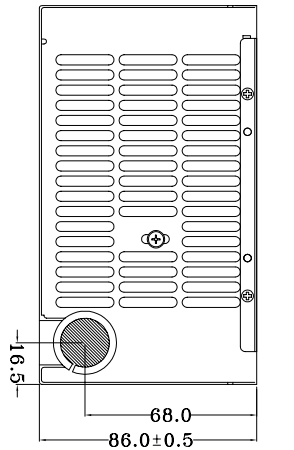
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Colorado Office

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REF. ID	NO.	SIGNAL	WIRE COLOR	CONDUCTOR TYPE	CABLE LENGTH
P1 /24	1	+3.3VDC	ORANGE	16	500±30mm -10
	2	+5VDC	RED	18	
	3	COM	BLACK	18	
	4	+5VDC	RED	18	
	5	COM	BLACK	18	
	6	+5VDC	RED	18	
	7	COM	BLACK	18	
	8	PM-COM	GRAY	18	
	9	+5VDC	RED	18	
	10	+12VDC	YELLOW	18	
	11	+12VDC	YELLOW	18	
	12	+3.3VDC	ORANGE	18	
	13	+3.3VDC	ORANGE	18	
	14	PM-CLK	BROWN	24	
	15	COM	BLACK	18	
	16	COM	BLACK	18	
	17	COM	BLACK	18	
	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	+5VDC	RED	18	
PA	1	+12V	YELLOW	18	AMP -1480424-0 430±30mm -10
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PB	1	+12V	YELLOW	18	AMP -1480424-0 200±10mm or EQV.
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PC	1	+12V	YELLOW	18	AMP 171822-4 200±10mm or EQV.
	2	COM	BLACK	22	
	3	COM	BLACK	22	
	4	+5V	RED	18	
PD	1	+12V	YELLOW	18	AMP -1480424-0 430±30mm -10
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PE	1	+12V	YELLOW	18	AMP -1480424-0 200±10mm or EQV.
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PF	1	+12V	YELLOW	18	AMP -1480424-0 430±30mm -10
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PG	1	+12V	YELLOW	18	AMP -1480424-0 200±10mm or EQV.
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PH	1	+12V	YELLOW	18	MOLEX 500±30mm -10
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PI	1	+12V	YELLOW	18	SERIAL, MA 300±10mm
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	
PJ	1	+12V	YELLOW	18	SERIAL, MA 500±30mm -10
	2	COM	BLACK	18	
	3	COM	BLACK	18	
	4	+5V	RED	18	



FSP P/N.:9PA3007705
SPI P/N.:FSP300THA-B204

NOTE:

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

⊕ 客戶要求將P1改為20+4P

UNIT:mm

MODEL NO.:	FSP300-60THA(S032)	TITLE:	ASSY	SHEET:	1 OF 1	REV:	05
APPROVE	PE	DRAWN		DATE	JAN.12.2006		
INTERIOR COUNTERSIGN:							