



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
San Jose, CA 95131
TEL: 408-519-8888
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E-MAIL: info@sparklepower.com

Sparkle Power Inc.

Los Angeles Office

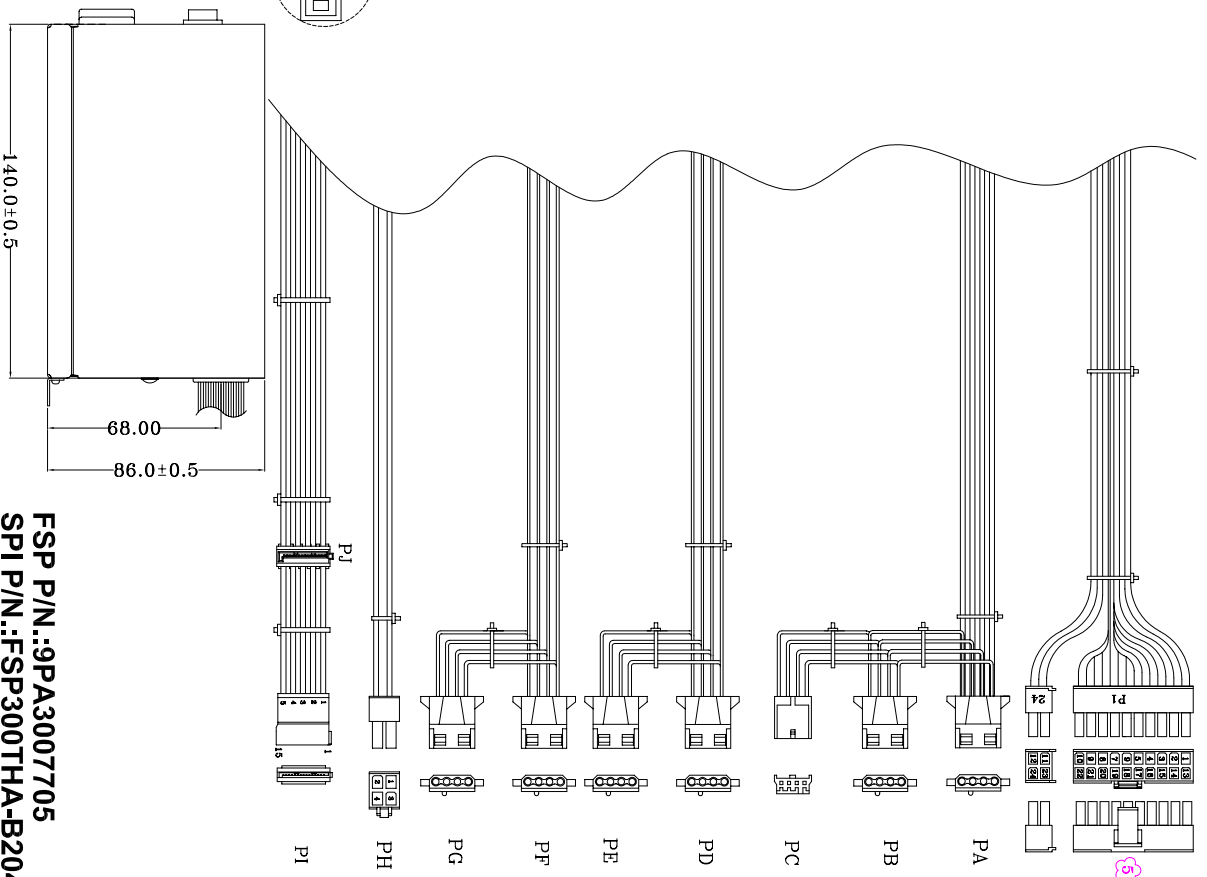
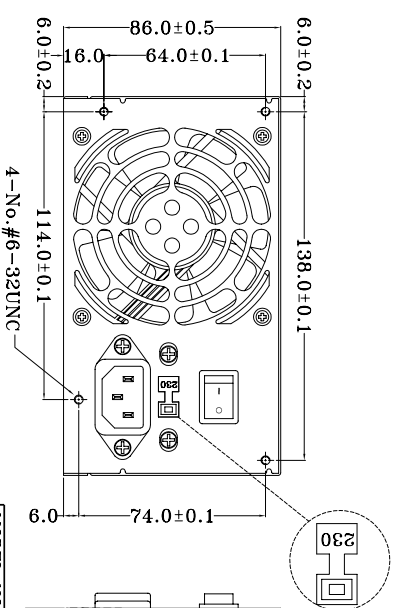
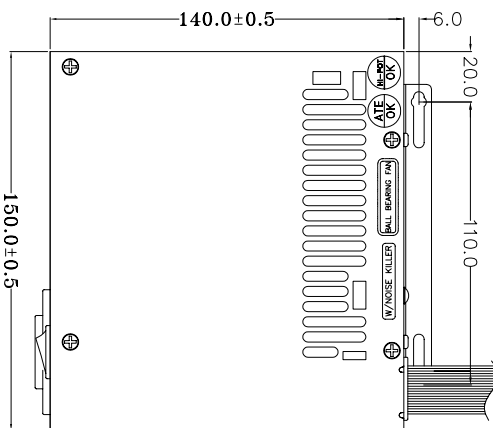
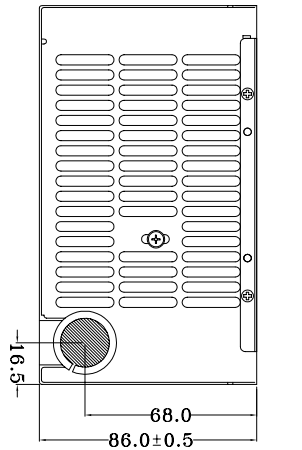
17071 Green Drive
City of Industry, CA 91745
TEL: 626-839-7180
FAX: 626-839-3395

Sparkle Power Inc.

Colorado Office

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

REF. ID	NO.	TYPE	WIRE	COLOR	DIODE	CONDUCTOR	CABLE
	1	+3.3VDC	ORANGE	18	18	AMP	500±30mm
	2	+5VDC	RED	18	18	AMP	500±30mm
	3	COM	BLACK	18	18	AMP	500±30mm
	4	+5VDC	RED	18	18	AMP	500±30mm
	5	COM	BLACK	18	18	AMP	500±30mm
	6	+5VDC	RED	18	18	AMP	500±30mm
	7	COM	BLACK	18	18	AMP	500±30mm
	8	PM-COM	GRAY	18	18	AMP	500±30mm
	9	+5VDC	RED	18	18	AMP	500±30mm
	10	+12VDC	YELLOW	18	18	AMP	500±30mm
	11	+12VDC	YELLOW	18	18	AMP	500±30mm
	12	+3.3VDC	ORANGE	18	18	AMP	500±30mm
	13	+3.3VDC	ORANGE	18	18	AMP	500±30mm
	14	PM-CLK	BROWN	24	24	AMP	500±30mm
	15	PM-CLK	BROWN	24	24	AMP	500±30mm
	16	COM	BLACK	18	18	AMP	500±30mm
	17	COM	BLACK	18	18	AMP	500±30mm
	18	COM	BLACK	18	18	AMP	500±30mm
	19	COM	BLACK	18	18	AMP	500±30mm
	20	COM	BLACK	18	18	AMP	500±30mm
	21	+5VDC	RED	18	18	AMP	500±30mm
	22	+5VDC	RED	18	18	AMP	500±30mm
	23	+5VDC	RED	18	18	AMP	500±30mm
	24	+5VDC	RED	18	18	AMP	500±30mm
	25	+5VDC	RED	18	18	AMP	500±30mm
	26	+5VDC	RED	18	18	AMP	500±30mm
	27	+5VDC	RED	18	18	AMP	500±30mm
	28	+5VDC	RED	18	18	AMP	500±30mm
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	76	+5VDC	RED	18	18	AMP	500±30mm
	77	+5VDC	RED	18	18	AMP	500±30mm
	78	+5VDC	RED	18	18	AMP	500±30mm
	79	+5VDC	RED	18	18	AMP	500±30mm
	80	+5VDC	RED	18	18	AMP	500±30mm
	81	+5VDC	RED	18	18	AMP	500±30mm
	82	+5VDC	RED	18	18	AMP	500±30mm
	83	+5VDC	RED	18	18	AMP	500±30mm
	84	+5VDC	RED	18	18	AMP	500±30mm
	85	+5VDC	RED	18	18	AMP	500±30mm
	86	+5VDC	RED	18	18	AMP	500±30mm
	87	+5VDC	RED	18	18	AMP	500±30mm
	88	+5VDC	RED	18	18	AMP	500±30mm
	89	+5VDC	RED	18	18	AMP	500±30mm
	90	+5VDC	RED	18	18	AMP	500±30mm
	91	+5VDC	RED	18	18	AMP	500±30mm
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	93	+5VDC	RED	18	18	AMP	500±30mm
	94	+5VDC	RED	18	18	AMP	500±30mm
	95	+5VDC	RED	18	18	AMP	500±30mm
	96	+5VDC	RED	18	18	AMP	500±30mm
	97	+5VDC	RED	18	18	AMP	500±30mm
	98	+5VDC	RED	18	18	AMP	500±30mm
	99	+5VDC	RED	18	18	AMP	500±30mm
	100	+5VDC	RED	18	18	AMP	500±30mm



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.:	FSP300-60THA(S032)	TITLE:	ASSY	SHEET:	1 OF 1	REV:	05
APPROVE	PE	DRAWN		DATE	JAN.12.2006		
INTERIOR COUNTERSIGN:							

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