



Sparkle Power Inc.

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



FSP400-60THN

400 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 115/230V AC, Manual selection

Frequency: 47~63Hz

Input Current 10A/115Vac(rms), 5A/230Vac(rms)

Inrush Current: 90A max cold start, 120A warm measured at 264rms/50Hz

Output Characteristics

Output Voltage	Min Load	Normal Load	Max Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	15A	30A	± 5%	± 1%	50mV P-P
+5V	1.0A	14A	28A	± 5%	± 1%	50mV P-P
+12V1	1.0A	7A	14.0A	± 5%	± 1%	120mV P-P
+12V2	1.0A	8.5A	15.0A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.4A	0.5A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	1A	2.0 A	± 5%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 150W

*When +3.3V is load on 30A, the +5V maximum load is 10.0A

*When +3.3V is load on 3.0A, the +5V maximum load is 28A

*+3.3V, +5V, +12V1, and +12V2 total output not exceed 385W

Specification

- **Operating Temperature Range:** 0°C ~ 50°C, 25°C On 400W, 50°C On 350W, De-rate 2W/°C.
- **Storage & Shipping Temperature Range:**-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% Min at 115/230AC On Full load
- **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

Sparkle Power Inc.

Main Office

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Sparkle Power Inc.

Los Angeles Office

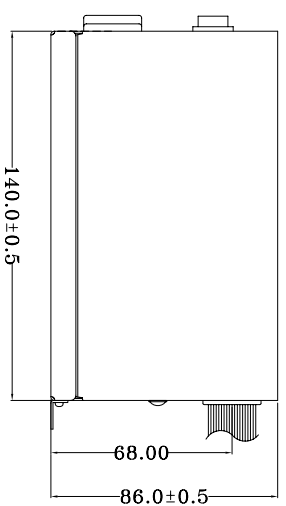
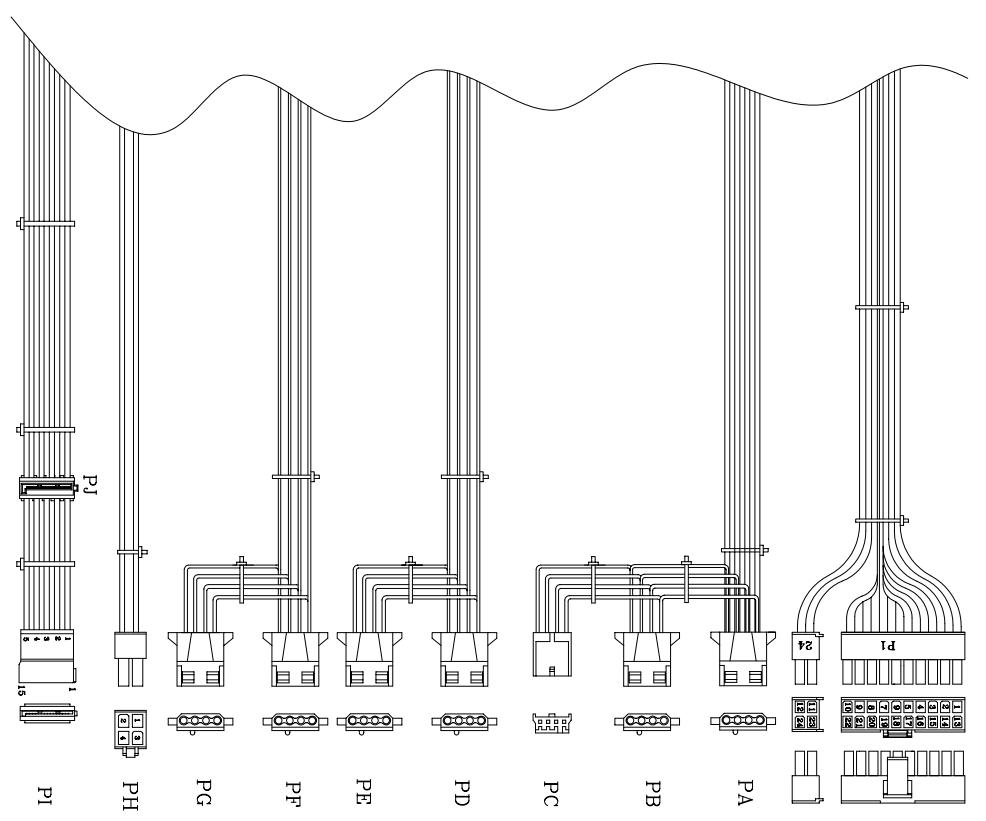
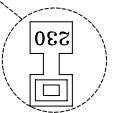
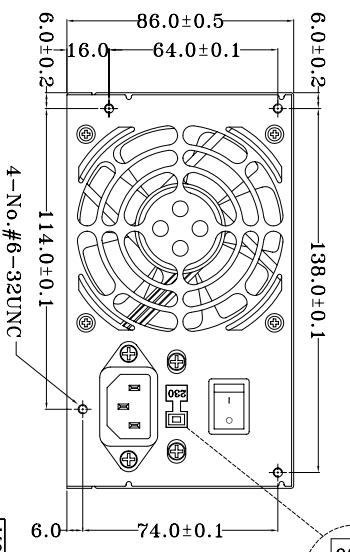
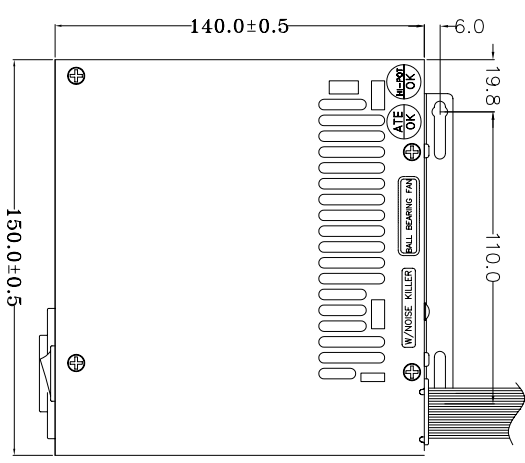
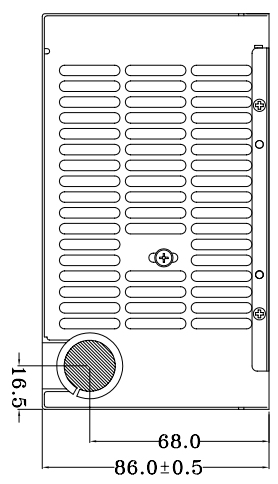
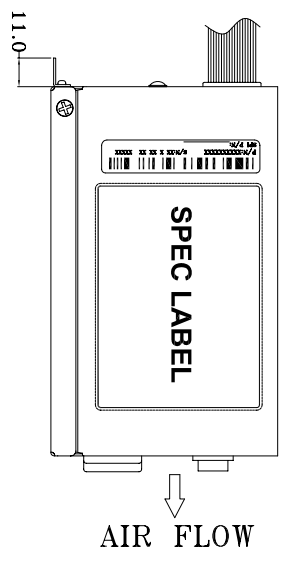
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Sparkle Power Inc.

Colorado Office

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REP. ID.	P/N	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1	/24	1	+3.3VDC ORANGE	18	AMP	500±30mm
		2	+3.3VDC ORANGE	18	AMP	500±30mm
		3	COM BLACK	18	AMP	500±30mm
		4	+5VDC RED	18	AMP	500±30mm
		5	+5VDC RED	18	AMP	500±30mm
		6	COM BLACK	18	AMP	500±30mm
		7	+5VDC RED	18	AMP	500±30mm
		8	COM BLACK	18	AMP	500±30mm
		9	PM-OK GRAY	24	AMP	500±30mm
		10	+5VDC RED	18	AMP	500±30mm
		11	+12VDC YELLOW	18	AMP	500±30mm
		12	+12VDC YELLOW	18	AMP	500±30mm
		13	+3.3VDC ORANGE	18	AMP	500±30mm
		14	COM BLACK	18	AMP	500±30mm
		15	COM BLACK	18	AMP	500±30mm
		16	COM BLACK	18	AMP	500±30mm
		17	COM BLACK	18	AMP	500±30mm
		18	COM BLACK	18	AMP	500±30mm
		19	COM BLACK	18	AMP	500±30mm
		20	COM BLACK	18	AMP	500±30mm
		21	+5VDC RED	18	AMP	500±30mm
		22	+5VDC RED	18	AMP	500±30mm
		23	+5VDC RED	18	AMP	500±30mm
		24	COM BLACK	18	AMP	500±30mm
PA		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PB		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PC		1	+12V YELLOW	22	AMP	200±1.0mm
		2	COM BLACK	22	AMP	171±0.25 or RQV.
		3	+12V YELLOW	22	AMP	200±1.0mm
		4	COM BLACK	22	AMP	171±0.25 or RQV.
PD		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PE		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PF		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PG		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PH		1	+12V YELLOW	18	AMP	-0.430±0.30mm
		2	COM BLACK	18	AMP	-1.480±0.24 or RQV.
		3	+12V YELLOW	18	AMP	-0.430±0.30mm
		4	COM BLACK	18	AMP	-1.480±0.24 or RQV.
PI		1	+12V YELLOW	18	AMP	200±1.0mm
		2	COM BLACK	18	AMP	159±1.0mm
		3	+12V YELLOW	18	AMP	200±1.0mm
		4	COM BLACK	18	AMP	159±1.0mm
PJ		1	+12V YELLOW	18	AMP	500±30mm
		2	COM BLACK	18	AMP	500±30mm
		3	+12V YELLOW	18	AMP	500±30mm
		4	COM BLACK	18	AMP	500±30mm



FSP P/N.:9PA4001103
SPI P/N.:FSP400THA-B204

MODEL NO.: FSP400-60THA(S031) TITLE: ASSY SHEET: 1 OF 1 REV:07

APPROVE: PE DRAWN: DATE

INTERIOR COUNTERSIGN: FEB. 24. 2006

NOTE:

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

客戶要求變更機種名稱

UNIT:mm