



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

FSP400-70MP

(Medical Grade, RoHS Compliant)

400 Watts ATX12V, EPS12V Switching Power Supply

Features

- Complied with ATX12V, EPS12V standard
- Active Power Factor Correction (PFC) meet EN61000-3-2
- High efficiency and reliability
- Compatible with European Union Directive 2002/95/EC (Restriction on Hazardous Substances).
- 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 CFR 47 part 18 subpart C, 120Vac operation & EN60601-1-2, EN55011, 230VAC operation
- Approved by UL60601-1, CSA C22.2 NO. 601-1-M90, VDE EN60601-1, (CB Report), CE

Input Characteristics

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

Frequency: 47 ~ 63Hz

Input Current: Max 8A (RMS) @ 115Vac, 4A (RMS) @ 230Vac

Inrush Current: 60A @ 115Vac, 100A @ 230Vac at cold start

Output Characteristics



Specification

- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5 ~ 90% on operating, 5 ~ 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 68% minimum at 115Vac and 230Vac on Full load.
- **Rise time:** Less than 20ms
- **Hold-up Time:** 20ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 500ms, off delay 1ms minimum (TTL and CMOS compatible)
- **Leakage Current:** Less than 0.3mA at 264Vac, 63Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm / 5.5x5.9x3.4inch

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	30A	± 5%	± 1%	50mV P-P
+5V	0.3A	30A	± 5%	± 1%	50mV P-P
+12V1	1.0A	17A	± 5%	± 1%	120mV P-P
+12V2	1.0A	17A	± 5%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 1%	100mV P-P
-12V	0.0A	0.8A	± 10%	± 1%	120mV P-P
+5Vsb	0.0A	2.0A	± 5%	± 1%	50mV P-P

*+3.3V and +5V total output shall not exceed 180W

*+3.3V, +5V and +12V total output shall not exceed 380W

* Total output for this subject power supply is 400W

Sparkle Power Inc.

Main Office

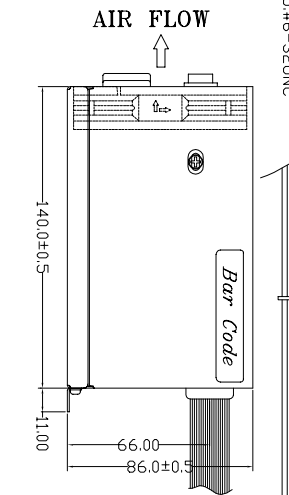
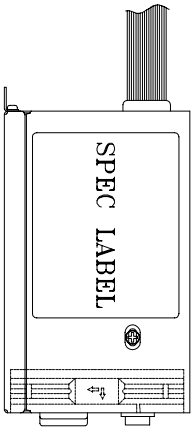
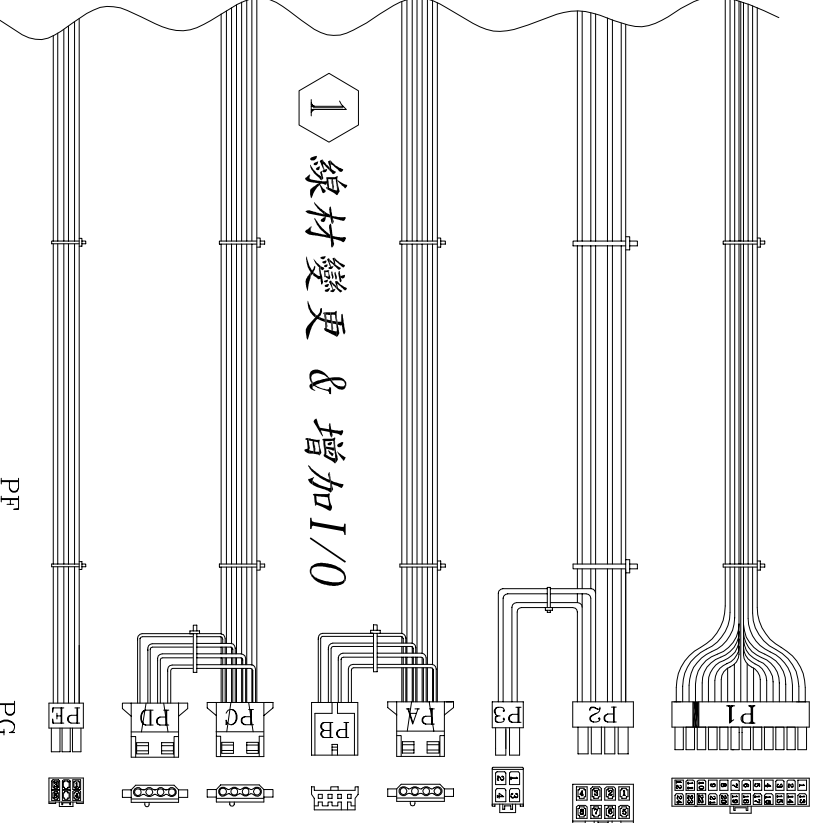
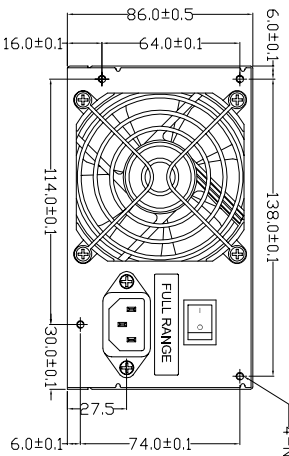
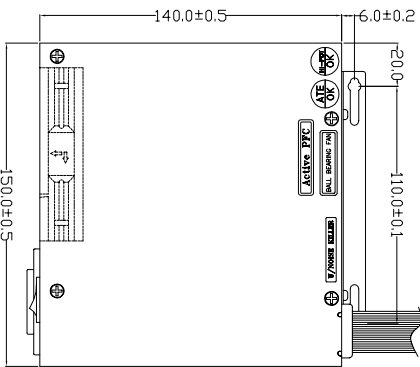
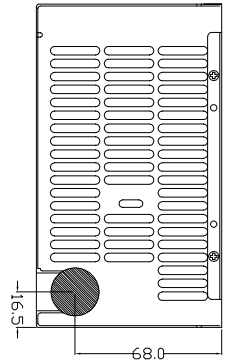
1000 Rock Avenue
 San Jose, CA 95131
 TEL: 408-519-8888
 FAX: 408-519-9999
 E-MAIL: info@sparklepower.com

Sparkle Power Inc.

Los Angeles Office

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

REF ID	PN	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH		
P1	2	+3.3VDC	ORANGE	18	JMT	500±15mm		
	3	COM	BLACK	18	JP2416V2-			
	4	+5VDC	RED	18	Z05			
	5	COM	BLACK	18	JP2416V2-			
	6	+5VDC	RED	18	4S			
	7	COM	BLACK	18				
	8	+5VSB	PURPLE	18				
	9	+5VSB	PURPLE	18				
	10	+12V1	YELLOW	18				
	11	+12V1	YELLOW	18				
	12	+3.3VDC	ORANGE	18				
	13	+3.3VDC	ORANGE	18				
	P2	14	System	BROWN	22			500±15mm
15		+2V1	BLUE	18				
16		PS-ON	GREEN	18				
17		COM	BLACK	18				
18		COM	BLACK	18				
19		COM	BLACK	18				
20		-5VDC	WHITE	18				
21		+5VDC	RED	18				
22		+5VDC	RED	18				
23		+5VDC	RED	18				
24		COM	BLACK	18				
P3		1	COM	BLACK	18	MOLEX	100±10mm	
		2	COM	BLACK	18	39-01-		
	3	COM	BLACK	18	39-01-			
	4	+12V2	Yel/Black	18	or EQUIV.			
P4	1	+12V1	YELLOW	18	AMP	150±10mm		
	2	COM	BLACK	18	1-480424-0			
	3	COM	BLACK	18	or EQUIV.			
	4	+5V	RED	18				
P5	1	+12V1	YELLOW	18	AMP	150±10mm		
	2	COM	BLACK	22	AMP			
	3	COM	BLACK	22	AMP			
	4	+5V	RED	22	or EQUIV.			
P6	1	+12V1	YELLOW	18	C4202H00-	430±15mm		
	2	COM	BLACK	18	243PA-RP			
	3	COM	BLACK	18	or EQUIV.			
	4	+5V	RED	18				
P7	1	+12V1	YELLOW	18	C1427H80	500±15mm		
	2	COM	BLACK	18	or EQUIV.			
	3	+5V	RED	18				
	4	COM	BLACK	18				
P8	1	+12V1	YELLOW	18	C1427H100	200±10mm		
	2	COM	BLACK	18	18P			
	3	+5V	RED	18	or EQUIV.			
	4	COM	BLACK	18				
	5	+3.3VDC	ORANGE	18				



- 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. : FSP400-70MP(S03002)	TITLE: ASSY	SHEET: 1 OF 1	REV:01
R&D	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Jul.17.2006
			樂家龍

FSP P/N.:9PA4002512
SPI P/N.:FSP400MP-B204