



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

FSP400-601UC (Active PFC & RoHS Compliant)

400 Watts, ATX12V, EPS12V, 1U Switching Power Supply

Features

- Complied with ATX, ATX12V and EPS12V 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: 6A (RMS) @115Vac, 3A (RMS) @230Vac

Inrush Current: 80A Max @115Vac, 120A Max @230Vac cold start

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.2A	16A	± 5%	± 1%	50mV P-P
+5V	0.2A	16A	± 5%	± 1%	50mV P-P
+12V1	0.2A	18A	± 5%	± 1%	120mV P-P
+12V2	0.2A	16A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.5A	± 10%	± 2%	120mV P-P
+5Vsb	0.1A	2.5A	± 5%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 132W

*+12V1 & +12V2 total current not exceed 30A

*+3.3V, +5V, and +12V total output cannot exceed 385W

* This subject power supply is 400W

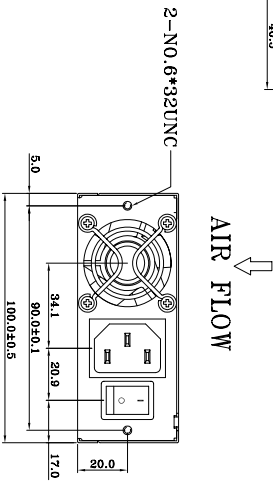
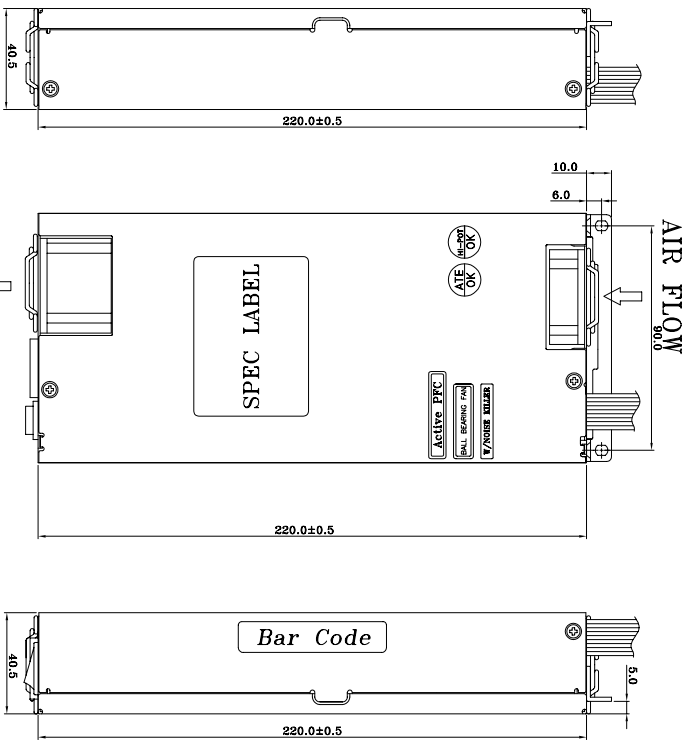
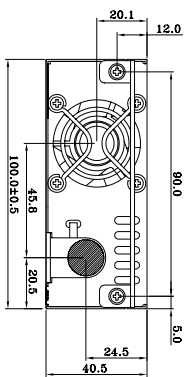
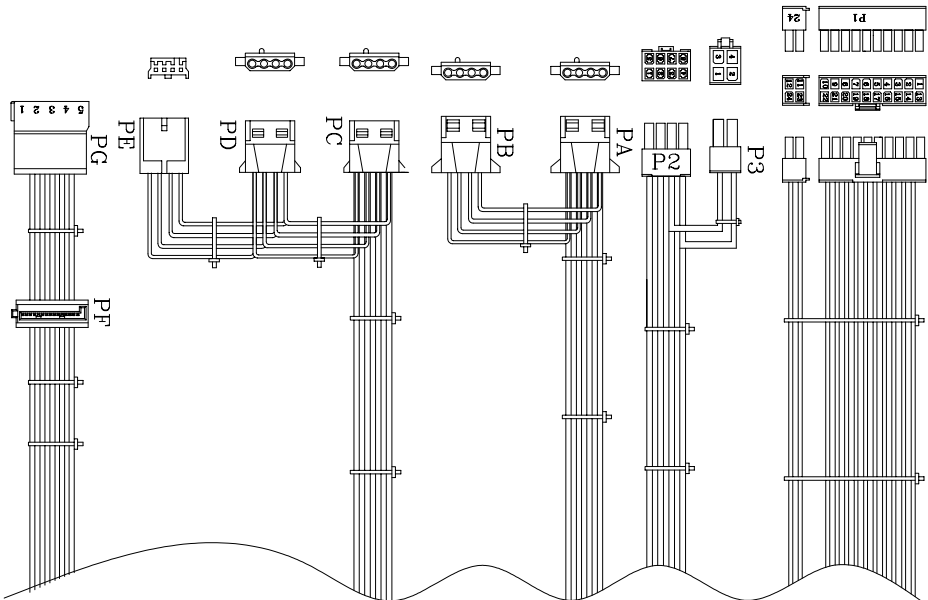


Specification

- **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 1 second
- **Efficiency:** 70% at minimum measured at nominal AC main voltage and frequency with maximum load on all outputs
- **Rise time:** Less than 20ms
- **Hold-up Time:** 18ms 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):** 250x100x40.5mm/9.8x3.9x1.6inch

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.	PIN NO.	SIGNAL	WIRE COLOR	GAGE	CONNECTOR TYPE	LENGTH
P1	1	+3.3VDC	ORANGE	18	1TT	695±20
	2	+3.3VDC	ORANGE	18	Bonding	mm
	3	COM	BLACK	18	BT76-04N	
	4	+5VDC	RED	18	+BT76-20N	
	5	COM	BLACK	18	NO INSULATOR	
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PM-OK	GRAY	18		
	9	+5V2B	PURPLE	18		
	10	+12V2	YELLOW	18		
	11	+12V2	YELLOW	18		
	12	+3.3VDC	ORANGE	18		
	13	+5V	BROWN	22		
P2	1	COM	BLACK	18	MOLEX	695±20
	2	COM	BLACK	18	39-01-2040	mm
	3	COM	BLACK	18	or EQUIV.	
	4	COM	BLACK	18		
	5	+12V1	YEL./BLACK	18		
	6	+12V1	YEL./BLACK	18		
	7	+12V1	YEL./BLACK	18		
	8	+12V1	YEL./BLACK	18		
	1	COM	BLACK	18	MOLEX	100±10
	2	COM	BLACK	18	39-01-2040	mm
	3	+12V1	YEL./BLACK	18	or EQUIV.	
	4	+12V1	YEL./BLACK	18		
	5	+12V1	YEL./BLACK	18		
P3	1	COM	BLACK	18	MOLEX	100±10
	2	COM	BLACK	18	39-01-2040	mm
	3	+12V1	YEL./BLACK	18	or EQUIV.	
	4	+12V1	YEL./BLACK	18		
PA	1	+12V2	YELLOW	18	AMP	500±20
	2	COM	BLACK	18	1-60454-07mm	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
PB	1	+12V2	YELLOW	18	AMP	200±10
	2	COM	BLACK	18	1-60454-07mm	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
PC	1	+12V2	YELLOW	18	AMP	200±10
	2	COM	BLACK	18	1-60454-07mm	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
PD	1	+12V2	YELLOW	22	AMP	200±10
	2	COM	BLACK	22	171822-4	mm
	3	COM	BLACK	22	or EQUIV.	
	4	+5V	RED	22		
PE	1	+12V2	YELLOW	18	AMP	500±20
	2	COM	BLACK	18	1-60454-07mm	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
PF	1	+12V2	YELLOW	18	AMP	200±10
	2	COM	BLACK	18	1-60454-07mm	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
PG	1	+12V2	YELLOW	18	AMP	200±10
	2	COM	BLACK	18	1-60454-07mm	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
P24	1	+3.3V	ORANGE	18		
	2	+3.3V	ORANGE	18		
	3	+3.3V	ORANGE	18		
	4	+3.3V	ORANGE	18		

FSP P/N.:9PA4003001
SPI P/N.:FSP400-601UC

- 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. : FSP400-601UC(S031)	TITLE: ASSY	SHEET: 1 OF 1	REV:01
R&D	PE	DRAWN	DATE
			Mar.02.2006
INTERIOR COUNTERSIGN:			黃鈺婷