



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



FSP500-80BU (Active PFC & RoHS Compliant)
500 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: 9A (RMS) @115Vac, 5A (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	30A	± 5%	± 1%	50mV P-P
+5V	0.2A	30A	± 5%	± 1%	50mV P-P
+12V1	0.2A	15A	± 5%	± 1%	120mV P-P
+12V2	0.2A	15A	± 5%	± 1%	120mV P-P
+12V3	0.2A	18A	± 5%	± 1%	120mV P-P
-5V	0.0A	0.3A	± 10%	± 1%	120mV P-P
-12V	0.0A	0.8A	± 10%	± 2%	120mV P-P
+5Vsb	0.0A	2.0A	± 5%	± 1%	50mV P-P

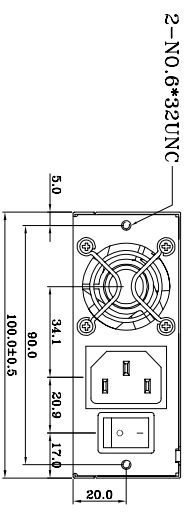
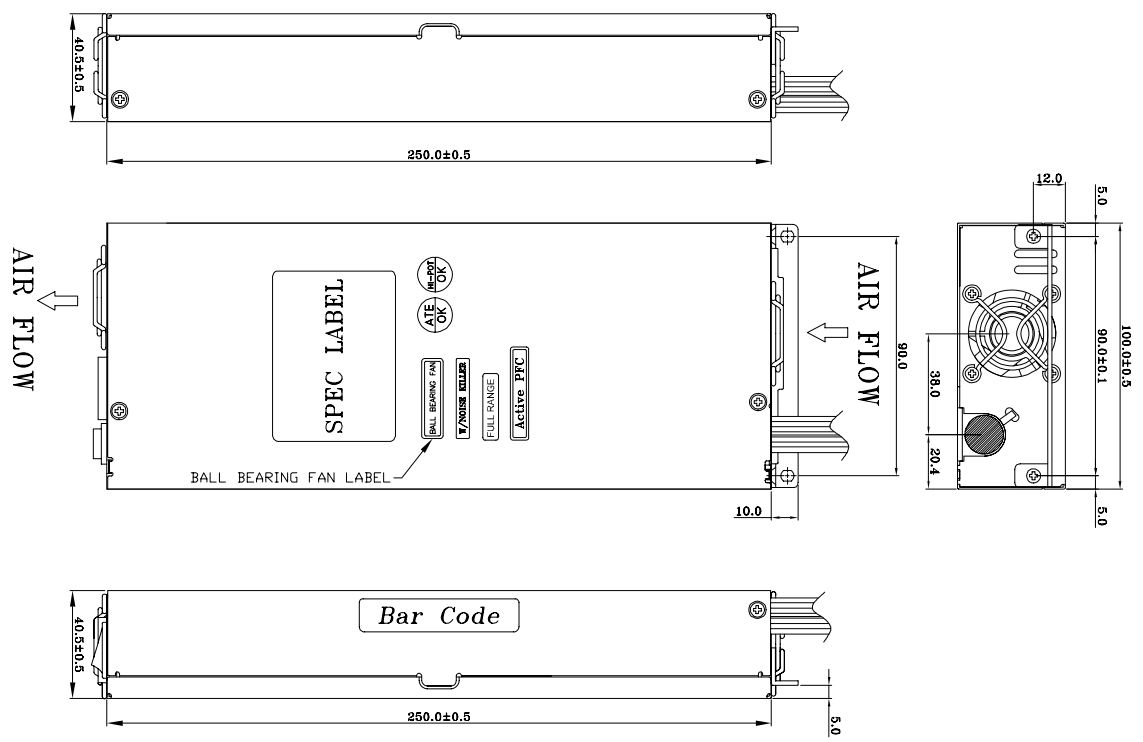
*+5V and +3.3V total output not exceed 220W
 *+3.3V, +5V, and +12V total output cannot exceed 480W(+12V Outputs shall not exceed 40A)
 * This subject power supply is 500W

Specification

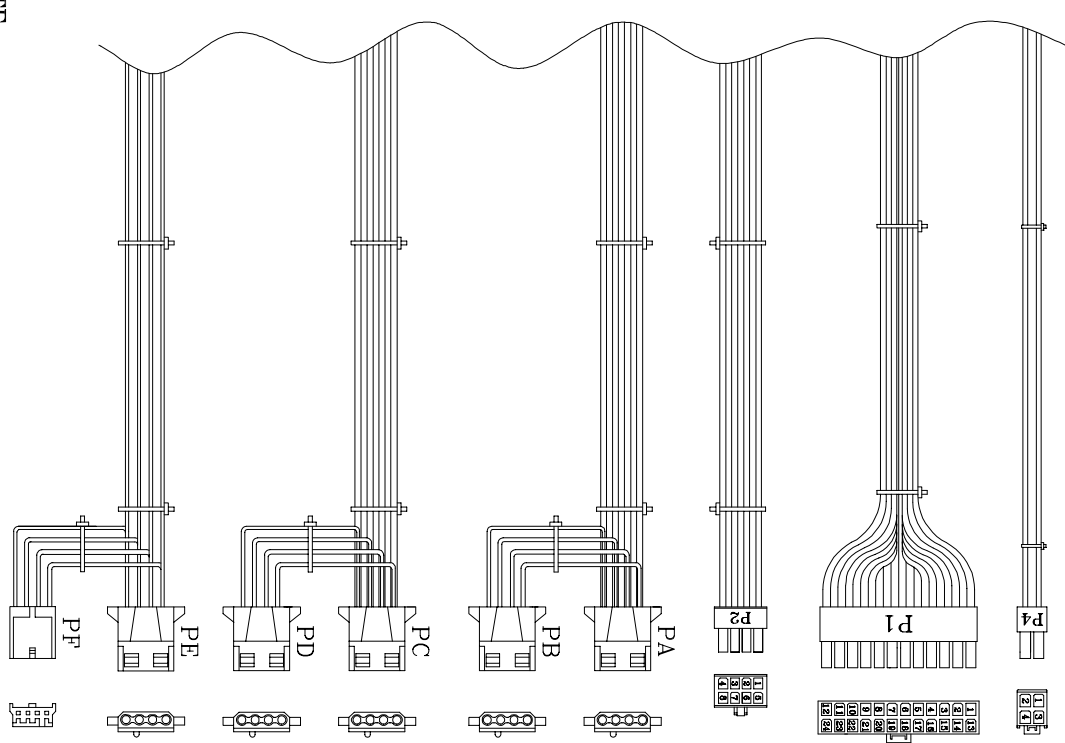
- **Temperature Range:** Operating: 0°C ~ +50°C on full load; storage & shipping: -20°C ~ +80°C
- **Humidity:** 5 ~ 95% on operating and storage
- **Dielectric Withstand:** Input to frame ground 1800 VAC for 1 second
- **Efficiency:** 70% at minimum measured at nominal AC 115VAC with maximum load on all outputs
- **Rise time:** Less than 50ms
- **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/10x4x1.6inch

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



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



REF. ID.	PN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
1	+3.3VDC	ORANGE	18		MOLEX	695±15mm
2	+3.3VDC	ORANGE	18		39-01-2240	
3	COM	BLACK	18		or EQUIV.	
4	+5VDC	RED	18			
5	COM	BLACK	18			
6	+5VDC	RED	18			
7	COM	BLACK	18			
8	PW-ON	GRAY	18			
9	+5Vsb	PURPLE	18			
10	+12V2	Yel./Blue	18			
11	+12V2	Yel./Blue	18			
12	+3.3VDC	ORANGE	18			
13	+3.3VDC	ORANGE	18			
14	-12VDC	BLUE	18			
15	COM	BLACK	18			
16	P5-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			
1	+12V1	Yel./Black	18		AMP	1-480424-0530±15mm or EQUIV.
2	COM	BLACK	18			
3	COM	BLACK	18			
4	+5V	RED	18			
1	+12V1	Yel./Black	18		AMP	1-480424-0530±15mm or EQUIV.
2	COM	BLACK	18			
3	COM	BLACK	18			
4	+5V	RED	18			
1	+12V1	Yel./Black	18		AMP	1-480424-0530±15mm or EQUIV.
2	COM	BLACK	18			
3	COM	BLACK	18			
4	+5V	RED	18			
1	+12V1	Yel./Black	18		AMP	1-480424-0530±15mm or EQUIV.
2	COM	BLACK	18			
3	COM	BLACK	18			
4	+5V	RED	18			
1	+12V1	Yel./Black	18		AMP	171822-4 or EQUIV.
2	COM	BLACK	18			
3	COM	BLACK	22			
4	+5V	RED	22			
1	COM	BLACK	18			
2	COM	BLACK	18			
3	COM	BLACK	18			
4	+12V3	Yel./White	18			
5	+12V3	Yel./White	18			
6	+12V3	Yel./White	18			
7	+12V3	Yel./White	18			
8	+12V3	Yel./White	18			
1	COM	BLACK	18		MOLEX	39-01-2090695±15mm or EQUIV.
2	COM	BLACK	18			
3	+12V3	Yel./White	18			
4	+12V3	Yel./White	18			

FSP P/N.:9PB5000112
 SPI P/N.:FSP500-80BUR

MODEL NO. : FSP500-80BU(S038)	TITLE: ASSY	SHEET: 1 OF 1	REV:02
R&D	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Oct.05.2005

黃鈺婷