



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

FSP600-80GLC
(80PLUS, SLI READY, RoHS Compliant)
600 Watts EPS12V & ATX12V Switching Power Supply

Features

- Complied with 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 part 15 subpart J class B 115Vac operation, and CISPR 22 class B at 230Vac operation
- Approved by UL60950, CSA C22.2 NO. 60950, TUV EN60950 or VDE EN60950, NEMKO EN60950 (CB Report), CE

Input Characteristics

Input Range: 90 ~ 264Vac (RMS), Full Range Input
Frequency: 47 ~ 63Hz
Input Current: 7A (RMS) @115Vac, 3.5A (RMS) @230Vac
Inrush Current: No damage, typical 100A at cold start

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Line Reg.	Ripple	Ripple & Noise
+3.3V	0.8A	18A	36A	± 5%	± 1%	50mV P-P	100mV P-P
+5V	0.5A	15A	30A	± 5%	± 1%	50mV P-P	100mV P-P
+12V1	0.0A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
+12V2	0.0A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
+12V3	0.9A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
+12V4	0.1A	7.5A	15A	± 5%	± 1%	120mV P-P	200mV P-P
-12V	0.0A	0.25A	0.8A	± 10%	± 1%	120mV P-P	200mV P-P
+5Vsb	0.0A	1.0A	2.0A	± 5%	± 1%	50mV P-P	100mV P-P

*+3.3V and +5V total output not exceed 155W

* Total output for this subject power supply is 600W

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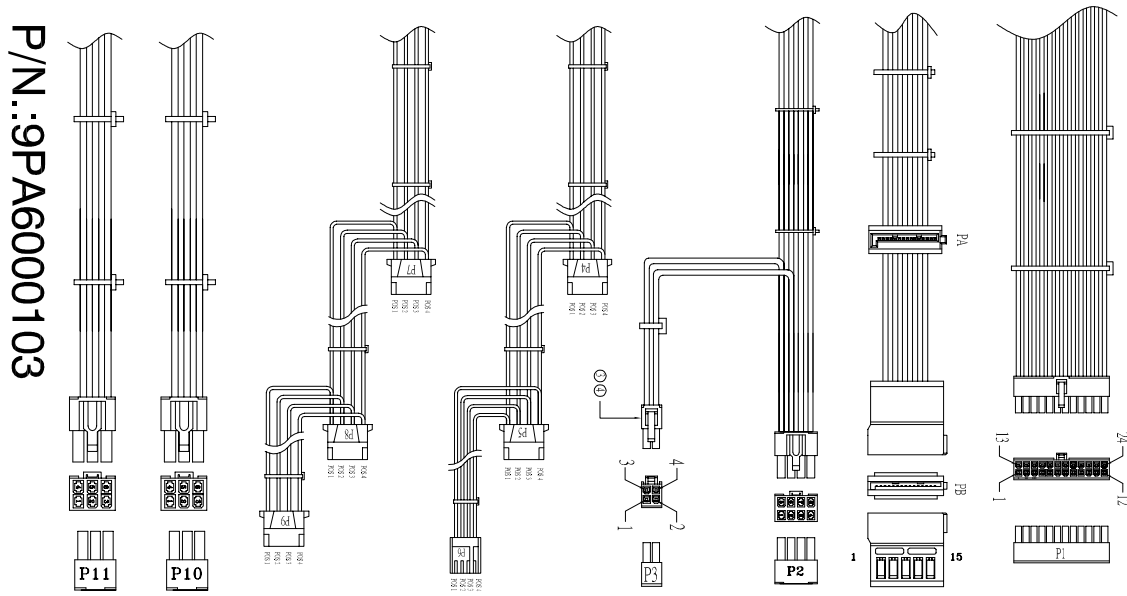
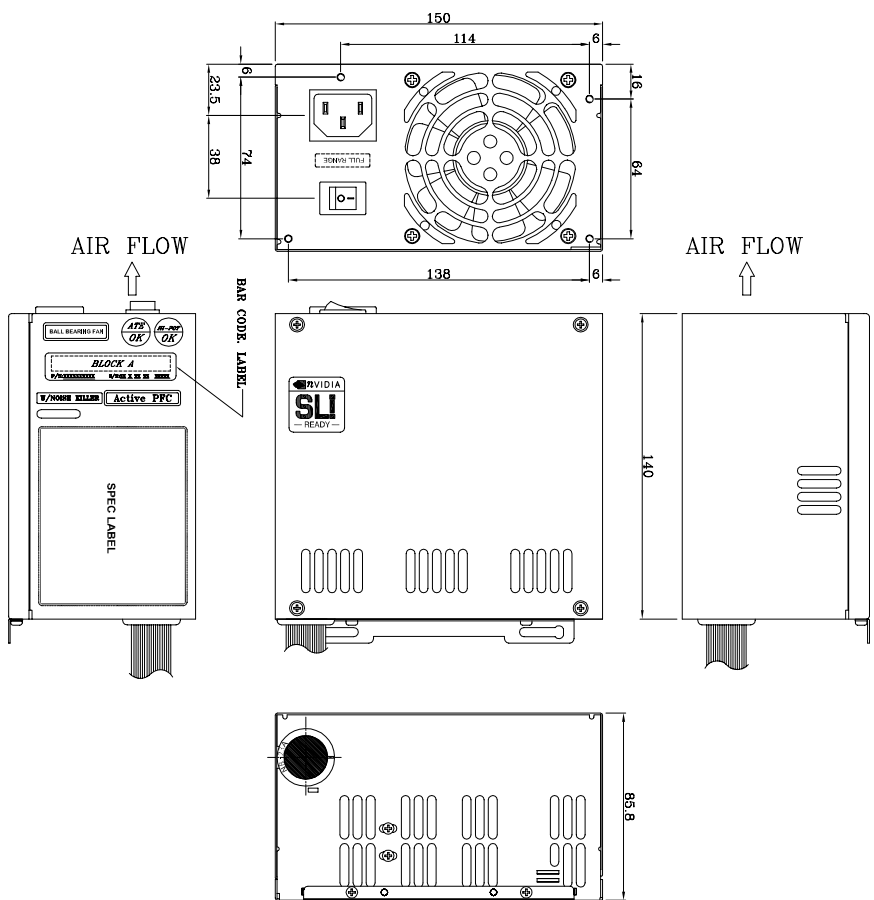


Specification

- **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:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** 80% minimum
- **Rise time:** Less than 20ms
- **Hold-up Time:** 17ms 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 3.5mA at 115VAC/60Hz
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 140x150x86mm/5.5x5.9x3.4inch

REF. ID.	REF. NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	+3.3VDC	ORANGE	18	MOLEX	
	3	COM	BLACK	18	39-01-2240	
	4	+5VDC	RED	18	or EQUIV.	
	5	COM	BLACK	18		
	6	+5VDC	RED	18		
	7	COM	BLACK	18		
	8	PM-ON	GRAY	24		
	9	+5Vsb	PURPLE	18		
	10	+12V3	YELLOW	18		
	11	+12V3	YELLOW	18		
	12	+3.3VDC	ORANGE	18		
	13	+3.3VDC	ORANGE	18		
	14	+3Sense	BROWN	24		
	15	-12VDC	BLUE	22		
	16	COM	BLACK	18		
	17	PS-ON	GREEN	24		
	18	COM	BLACK	18		
	19	COM	BLACK	18		
	20	COM	BLACK	18		
PA	1	+5VDC	RED	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	+3.3V	ORANGE	18	CL1271HS0	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18	15P	
PB	1	+5V	RED	18	MOLEX	220±20mm or EQUIV.
	2	COM	BLACK	18	CL1270H00	
	3	+5V	RED	18	15P	
	4	COM	BLACK	18	or EQUIV.	
P2	1	+12V3	YELLOW	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	COM	BLACK	18	39-01-	
	3	COM	BLACK	18	2090	
	4	COM	BLACK	18	or EQUIV.	
P3	1	+12V1	YEL./BLUE	18	MOLEX	200 +0 ^{mm} -10 ^{mm}
	2	COM	BLACK	18	39-01-	
	3	+12V1	YEL./BLUE	18	2040	
	4	+12V1	YEL./BLUE	18	or EQUIV.	
P4	1	+12V4	YEL./BLK	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	COM	BLACK	18	1-480424-0	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
P5	1	+12V4	YEL./BLK	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	COM	BLACK	18	1-480424-0	
	3	COM	BLACK	18	or EQUIV.	
	4	+5V	RED	18		
P6	1	+12V3	YELLOW	18	MOLEX	150±10mm
	2	COM	BLACK	20	171822-4	
	3	COM	BLACK	20	or EQUIV.	
	4	+12V4	YEL./BLK	18		
P10	1	+12V3	YELLOW	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	+12V3	YELLOW	18	455590002	
	3	COM	BLACK	18	or EQUIV.	
	4	COM	BLACK	18		
P11	1	+12V4	YEL./BLK	18	MOLEX	500 +0 ^{mm} -10 ^{mm}
	2	+12V4	YEL./BLK	18	455590002	
	3	COM	BLACK	18	or EQUIV.	
	4	COM	BLACK	18		

UNIT:mm



P/N.:9PA6000103
SPI P/N.:FSP600-80GLCR

- NOTE:
- ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.
 - 產地標識依業務指示加貼。

MODEL NO. : FSP600-80GLCR(S031)	TITLE: ASSY	SHEET: 1 OF 1	REV:03
R&D	PE	CHECKED	DESIGN
INTERIOR COUNTERSIGN:			
			JAN.19.2006
			劉啟全