



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

FSP620-80MR1 (Active PFC & RoHS Compliant)

620 Watts, 1+1 Redundant Switching Power Supply

Features

- Hot Swappable/Hot Plug-able 1+1 Redundant
- 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 with Noise Killer (Fan speed control)
- Low noise and ripple
- Smart I²C Communication
- Led indication, Green for PS ok. Amber for PS OTP,OVP,OCP,UVP and Fan Fail
- 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 ~ 264Vac (RMS), Full Range Input

Frequency: 47 ~ 63Hz

Input Current: 10A (RMS) @115Vac, 5A (RMS) @230Vac

Inrush Current: 55A Max @115Vac, 55A Max @230Vac cold start

Output Characteristics

Output Voltage	Minimum Load	Maximum Load	Load Reg.	Line Reg.	Ripple & Noise
+3.3V	0.5A	24A	± 5%	± 1%	50mV P-P
+5V	0.5A	24A	± 5%	± 1%	50mV P-P
+12V1	0.5A	16A	± 5%	± 1%	120mV P-P
+12V2	0.5A	16A	± 5%	± 1%	120mV P-P
+12V3	0.5A	16A	± 5%	± 1%	120mV P-P
+12V4	0.5A	16A	± 5%	± 1%	120mV P-P
-12V	0.0A	0.5A	+9%/-5%	± 2%	120mV P-P
+5Vsb	0.1A	3.0A	± 5%	± 1%	50mV P-P

*+5V and +3.3V total output not exceed 140W

*+12V Max Current not exceed 48A.(576W)

* This subject power supply is 620W

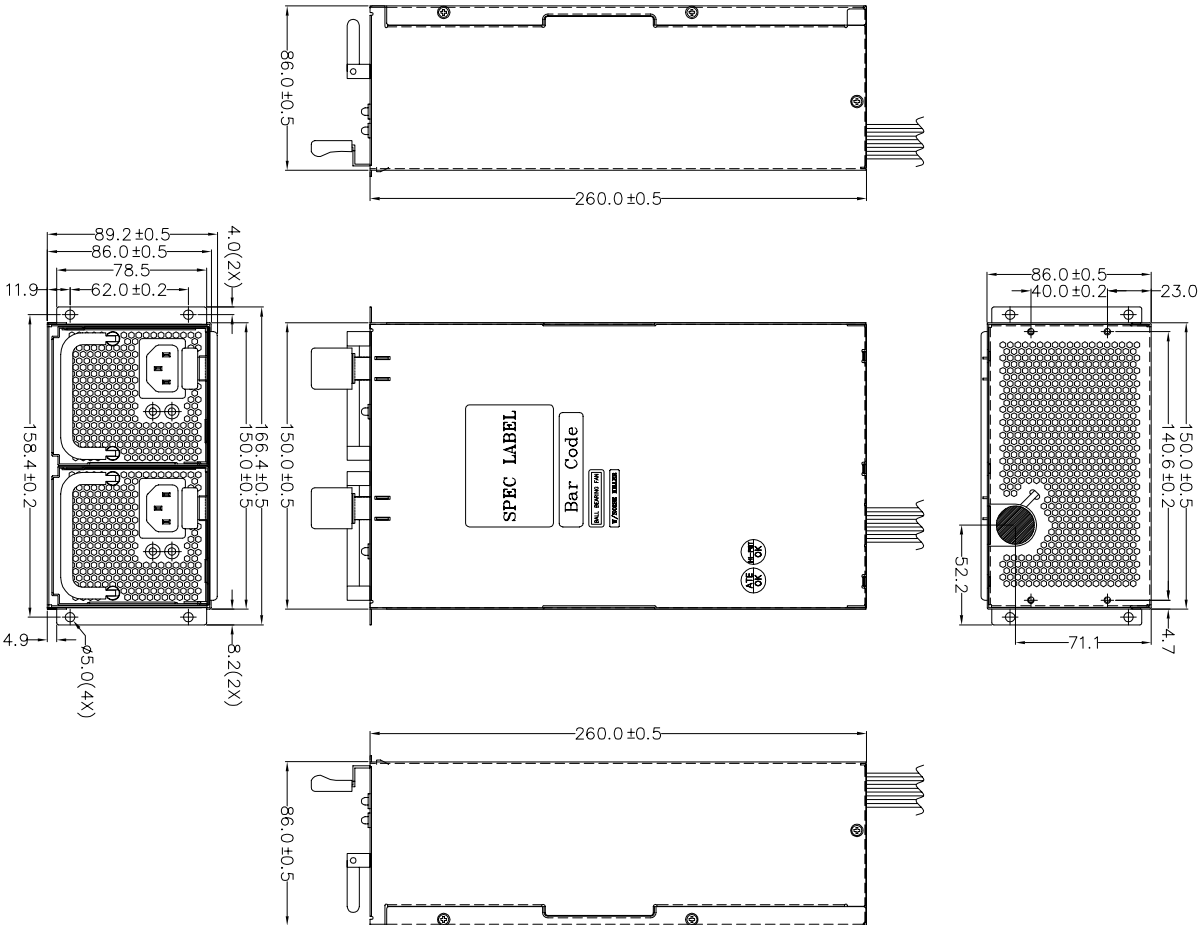


Specification

- **Temperature Range:** Operating: 0°C ~ +45°C on full load; storage & shipping: -40°C ~ +70°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 70ms
- **Hold-up Time:** 20ms minimum at nominal input voltage
- **Power Good Signal:** Power on delay time 100 ~ 1000ms, 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):** 260x150x86mm/10.2x5.9x3.4inch

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San Jose, CA 95131
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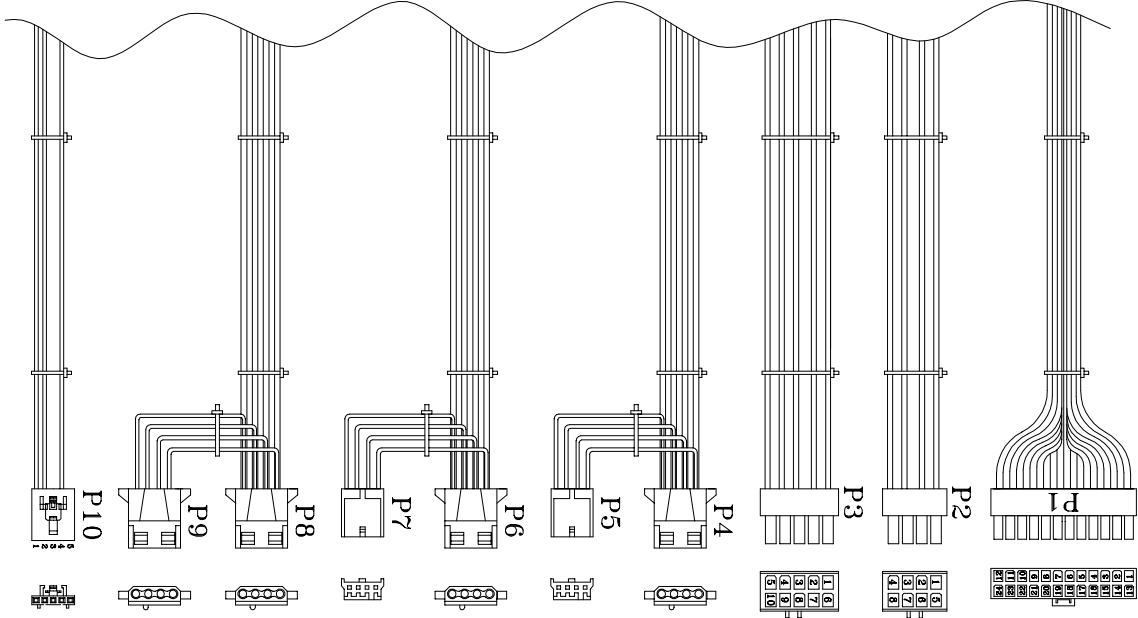
Sparkle Power Inc.
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NOTE:

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

UNIT:mm



REF ID	Pin	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1	1	+3.3VDC	ORANGE	18	MOLEX 500±15mm	
	2	+5VDC	BLACK	18	MOLEX 500±15mm	
	3	+5VDC	RED	18	MOLEX 500±15mm	
	4	+5VDC	RED	20	MOLEX 500±15mm	
	5	COM	BLACK	18	MOLEX 500±15mm	
	6	+5VDC	RED	18	MOLEX 500±15mm	
	7	COM	BLACK	18	MOLEX 500±15mm	
	8	+5VDC	RED	18	MOLEX 500±15mm	
	9	+5VDC	RED	18	MOLEX 500±15mm	
	10	+5VDC	RED	18	MOLEX 500±15mm	
P2	1	+12V	YEL/BLUE	18	MOLEX 500±15mm	
	2	+12V	YEL/BLUE	18	MOLEX 500±15mm	
	3	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	4	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	5	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	6	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	7	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	8	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	9	+12V	YEL/BLACK	18	MOLEX 500±15mm	
	10	+12V	YEL/BLACK	18	MOLEX 500±15mm	
P3	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	5	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	6	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	7	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P4	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	5	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	6	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	7	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P5	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	5	+12V	YEL/WHITE	18	MOLEX 500±15mm	
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	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P6	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
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	7	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P7	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	5	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	6	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	7	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P8	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	5	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	6	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	7	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P9	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	4	+12V	YEL/WHITE	18	MOLEX 500±15mm	
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	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	
P10	1	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	2	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	3	+12V	YEL/WHITE	18	MOLEX 500±15mm	
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	7	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	8	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	9	+12V	YEL/WHITE	18	MOLEX 500±15mm	
	10	+12V	YEL/WHITE	18	MOLEX 500±15mm	

P/N.:9PR6200100

MODEL NO. : FSP620-80MR1	TITLE: ASSY	SHEET: 1 OF 1	REV:01
R&D	PE	DRAWN	DATE
INTERIOR COUNTERSIGN:			Apr.21.2006
			樂家龍

Mechanical Drawing外觀/機構圖/表單編號7000P-0111