



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

MAGNA 900(R-SPI900GCM)

(RoHS Compliant)

900 Watts ATX12V & EPS12V Switching Power Supply

Features

- Complied with ATX12V and 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 UL/CUL 60950-1, CSA, NEMKO EN60950-1 (CB Report) CE, VDE, EMC, FCC

Input Characteristics

Input Range: 99 ~ 265Vac (RMS), Full Range Input

Frequency: 47 ~ 53Hz

Input Current: Max 11A (RMS) @ 115Vac, 5.5A (RMS) @ 230Vac

Inrush Current: No damage

Output Characteristics

Output Voltage	Minimum Load	Normal Load	Maximum Load	Load Reg.	Ripple & Noise
+3.3V	0.8A	15A	30A	± 5%	75mV P-P
+5V	0.5A	15A	30A	± 5%	75mV P-P
+12V1~+12V4	0.5A	10A	20A	± 5%	140mV P-P
-12V	0.0A	0.5A	1A	± 10%	140mV P-P
+5Vsb	0.1A	1.5A	3.0A	± 5%	75mV P-P

*+3.3V and +5V total output not exceed 175W.

*+3.3V and +5V & +12V outputs power should not exceed 875W.

*Maximum combined current for the 12V outputs shall be 70A..

* Total output for this subject power supply is 900W

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

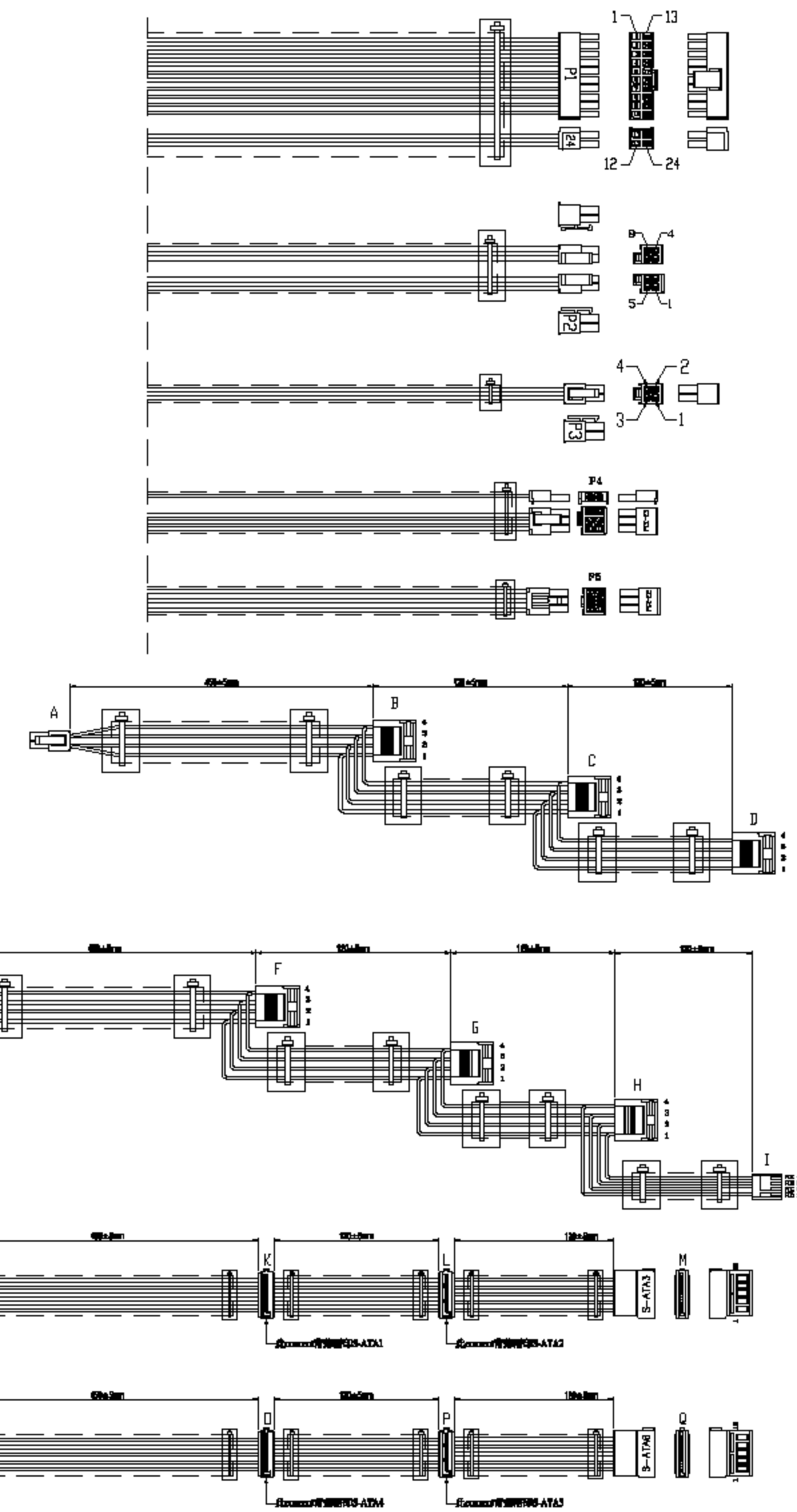
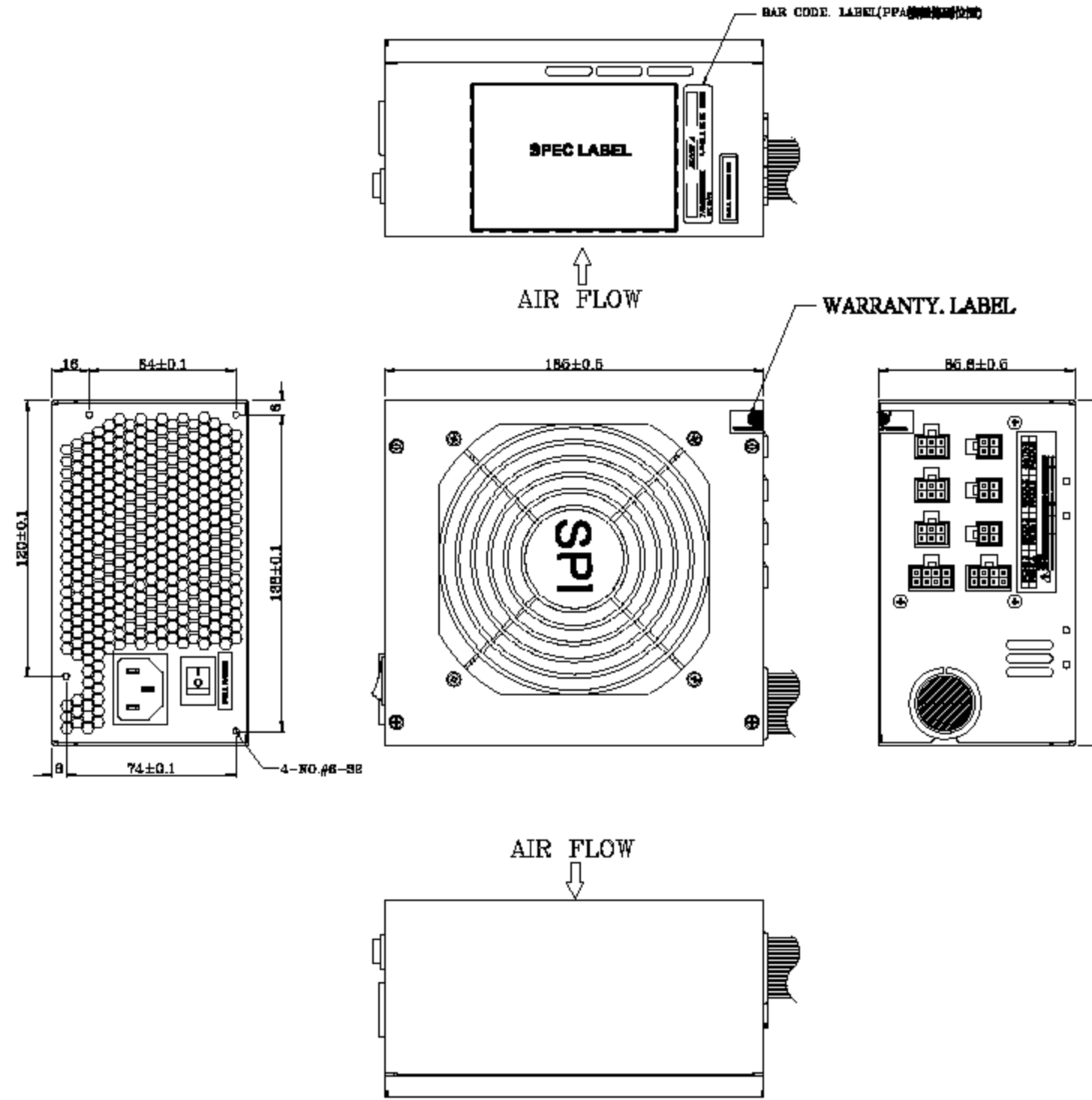
Sparkle Power Inc.
Los Angeles Office
17071 Green Drive
City of Industry, CA 91745
TEL: 626-839-7180
FAX: 626-839-3395



Specification

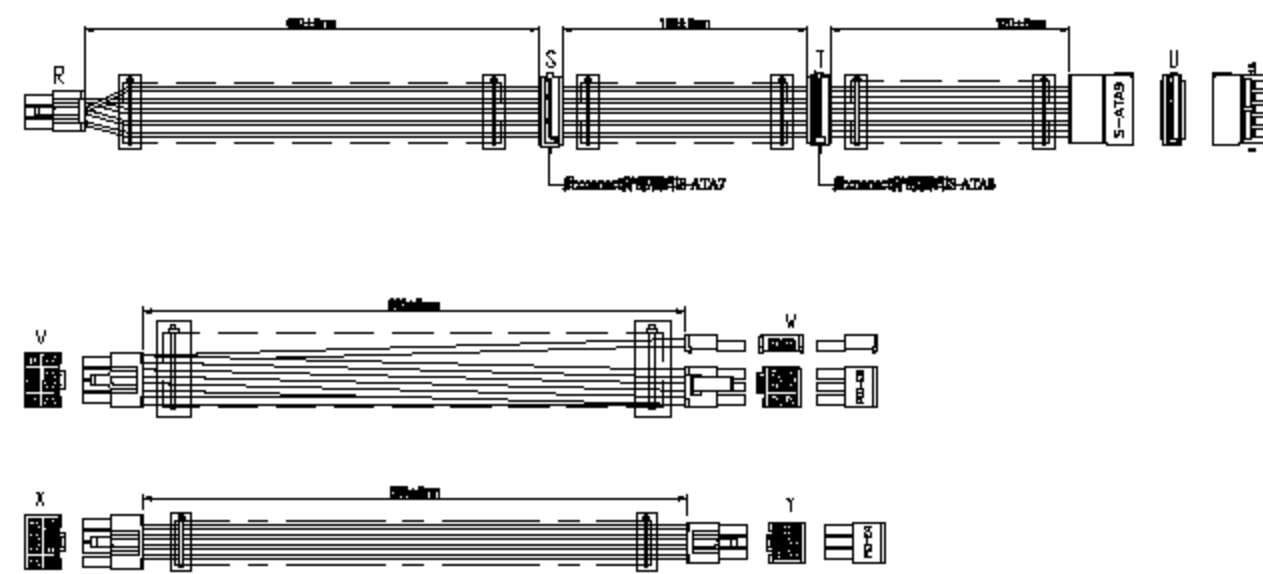
- **Temperature Range:** Operating: 10°C ~ 50°C; De-rate 6W/ °C from 25°C to 50°C .
Storage & Shipping: -20°C ~ +80°C
- **Humidity:** 5%~95% on operating, 5%~ 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** typical > 80%
- **Rise time:** Less than 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 3.5mA.
- **MTBF:** 100,000 hours on maximum load at +25°C
- **Dimensions (LxWxH):** 165x150x85.8mm/6.5x5.9x3.4inch

REF. ID.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH
P1 /24	1	+3.3V	ORANGE	16	J7V	500 ⁺²⁰ / ₋₁₀ mm
	2	+3.3V	ORANGE	16	04020202-44P+ or EQUIV.	
	3	COM	BLACK	16	04020202-44P+ or EQUIV.	
	4	+5V	RED	16		
	5	COM	BLACK	16		
	6	+5V	RED	16		
	7	COM	BLACK	16		
	8	PWR_OK	GRAY	24		
	9	+5Vsb	PURPLE	20		
	10	+12V3	YELLOW	16		
	11	+12V3	YELLOW	16		
	12	+3.3V	ORANGE	16		
	13	+3.3V	ORANGE	16		
	14	+5Vsense	BROWN	24		
	15	-12V	BLUE	24		
	16	COM	BLACK	16		
	17	PS_ON#	GREEN	24		
	18	COM	BLACK	16		
	19	COM	BLACK	16		
	20					
	21	+5V	RED	16		
	22	+5V	RED	16		
	23	+5V	RED	16		
	24	COM	BLACK	16		
P2	1	COM	BLACK	16	P4-14200202E+ or EQUIV.	500 ⁺²⁰ / ₋₁₀ mm
	2	COM	BLACK	16		
	3	COM	BLACK	16		
	4	COM	BLACK	16		
	5	+12V1	YEL/BLUE	16		
P3	1	COM	BLACK	16	MOLEX 36-01-8040 or EQUIV.	500 ⁺²⁰ / ₋₁₀ mm
	2	COM	BLACK	16		
	3	+12V1	YEL/BLUE	16		
	4	+12V1	YEL/BLUE	16		
	5	+12V1	YEL/BLUE	16		
PCI-E1	1	+12V2	YEL/WHITE	16	WPT P6-14200202E+ or EQUIV.	500 ⁺²⁰ / ₋₁₀ mm
	2	+12V2	YEL/WHITE	16		
	3	+12V2	YEL/WHITE	16		
	4	COM	BLACK	16		
	5	COM	BLACK	16		
PCI-E2	1	+12V2	YEL/WHITE	16	MOLEX 40680002E or EQUIV.	500 ⁺²⁰ / ₋₁₀ mm
	2	+12V2	YEL/WHITE	16		
	3	+12V2	YEL/WHITE	16		
	4	COM	BLACK	16		
	5	COM	BLACK	16		



* 12V Output Distribution List

12V1	P2,P3
12V2	P4,P5
12V3	P1, A-U
12V4	V-Y



SPI P/N.:SPI900GCM

P/N.:PPA9000300

MODEL NO. : SPI900GCM(S03001)	TITLE: ASSY	SHEET: 1 OF 1	REV:01
R&D 8	PE	DRAWN	DATE
		高湘琳	APR.25.2008

- NOTE:
- ALL THE LENGTH OF OUTPUT WIRES EXCLUDE HOUSING.
 - 產地標識依來源指示加貼。
 - CASE顏色: BLACK C 2X加亮光漆
 - 膠殼: A、E為白色; V、X為藍色; 其餘為黑色
 - 熱縮管取型狀套管: PCI-E1、E2為深藍色; PCI-E3、E4為深紅色; 其餘為黑色

UNIT:mm