



**Sparkle Power Inc.**  
 A Leading Power Supply Manufacturer  
 Web site: [www.sparklepower.com](http://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.

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

\*+3.3V and +5V & +12V outputs power should not exceed 875W. \* Total output for this subject power supply is 900W

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**Specification**

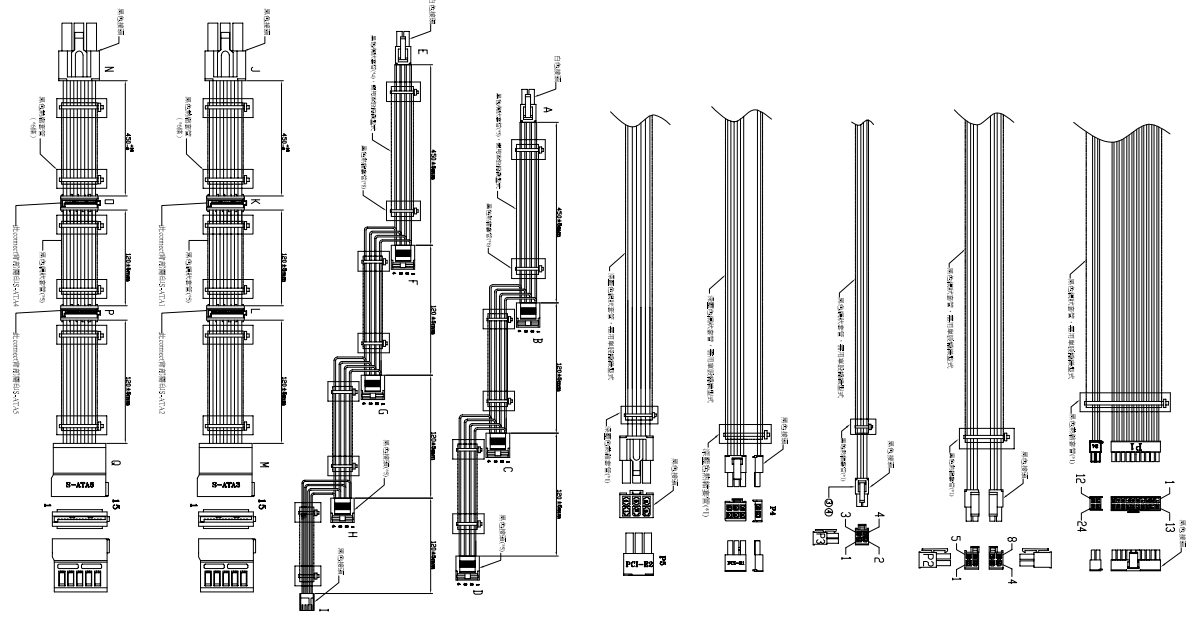
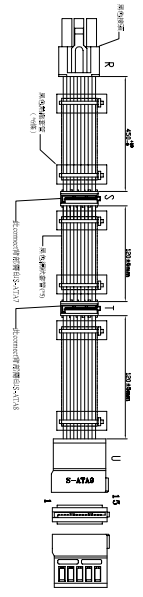
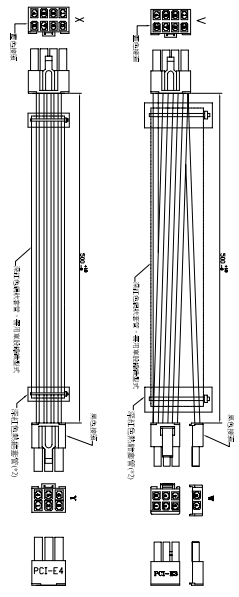
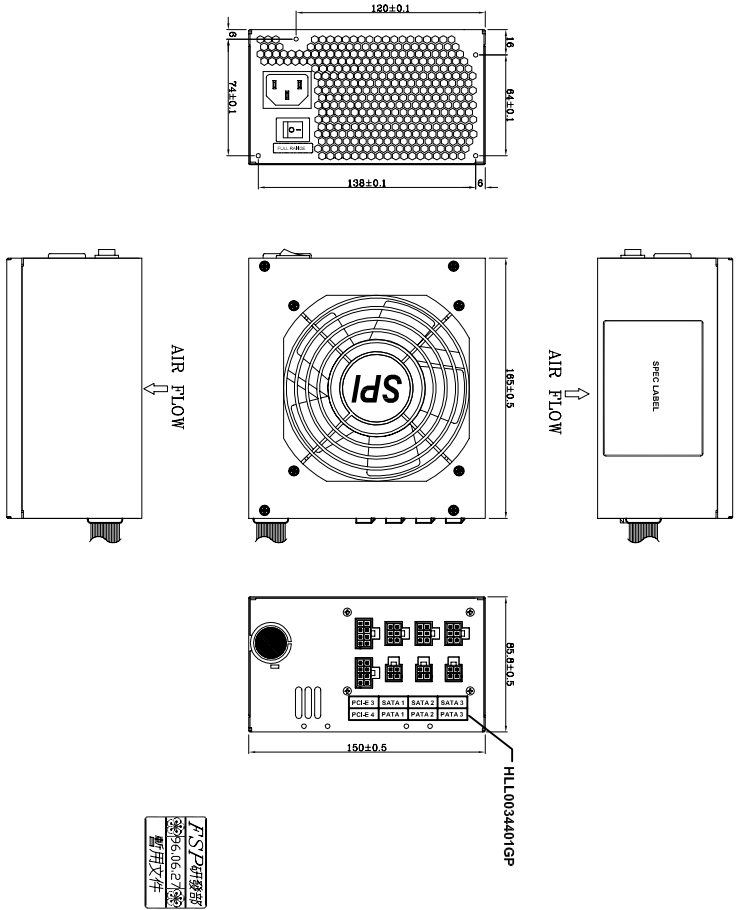
- **Temperature Range:** Operating: 10°C ~ +50°C ; De-rate 6W/°C from 25°C to 50°C , 900W at 25°C.  
Storage & shipping: -20°C ~ +80°C
- **Humidity:** 5%~95% on operating, 5%~ 95% on storage
- **Dielectric Withstand:** Primary frame ground 1800V AC for 1 second
- **Efficiency:** typical > 80%
- **Rise 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

CASE顏色為BLACK C 2X + 亮光漆

REF. ID	P/N	SIGNAL	WIRE GAUGE	CONNECTOR TYPE	CABLE LENGTH
1	+3.3V	ORANGE	18	CaseMate 44 Pin or EQUIV.	500±28 mm
2	+3.3V	ORANGE	18		
3	COM	BLACK	18		
4	+5V	RED	18		
5	COM	BLACK	18		
6	+5V	RED	18		
7	COM	BLACK	18		
8	PC-SON#	BLACK	18		
9	PC-SON#	BLACK	18		
10	+12V3	YELLOW	18		
11	+12V3	YELLOW	18		
12	+3.3V	ORANGE	18		
13	+3.3V	ORANGE	18		
14	+3.3V	BROWN	24		
15	-12V	BLUE	24		
16	COM	BLACK	18		
17	PC-SON#	GREEN	24		
18	COM	BLACK	18		
19	COM	BLACK	18		
20	COM	BLACK	18		
21	+5V	RED	18		
22	+5V	RED	18		
23	+5V	RED	18		
24	COM	BLACK	18		
1	COM	BLACK	18	P4-4202008	500±28 mm
3	COM	BLACK	18	P4-4202008 or EQUIV.	
4	COM	BLACK	18		
5	+12V1	YEL./BLUE	18		
6	+12V1	YEL./BLUE	18		
7	+12V1	YEL./BLUE	18		
8	+12V1	YEL./BLUE	18		
9	COM	BLACK	18		
10	COM	BLACK	18		
11	+12V2	YEL./GREEN	18		
12	+12V2	YEL./GREEN	18		
13	COM	BLACK	18		
14	COM	BLACK	18		
15	COM	BLACK	18		
16	COM	BLACK	18		
1	+12V2	YEL./GREEN	18	JPT	500±28 mm
2	+12V2	YEL./GREEN	18	Q4202100-2	500±28 mm
3	COM	BLACK	18	or EQUIV.	
4	COM	BLACK	18		
5	COM	BLACK	18		
6	COM	BLACK	18		

\* 12V Output Distribution List

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



P/N.:9PA900XXOX

MODEL NO. : SPI 900GCM	TITLE: ASSY	SHEET: 1 OF 1	REV: 01
R&D(8)	PE	CHECKED	DESIGN
INTERIOR COUNTERSIGN:			DATE
			JUN.27.2007
			賴俊佑

UNIT:mm