



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

MAGNA 1000(R-SPI1000GCM)
(RoHS Compliant)

1000 Watts ATX12V and 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,CSA22.2 NO or CUL 60950-1, TUV or VDE, EMC,FCC ,CE, CB report.

Input Characteristics

Input Range: 99 ~ 265Vac (RMS), Full Range Input
Frequency: 47 ~ 53Hz
Input Current: Max 11.5A (RMS) @ 115Vac, 6A (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%	200mV 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 975W

* Maximum combined current for the 12V outputs shall be 75A.
 *Total output for this subject power supply is 1000W.

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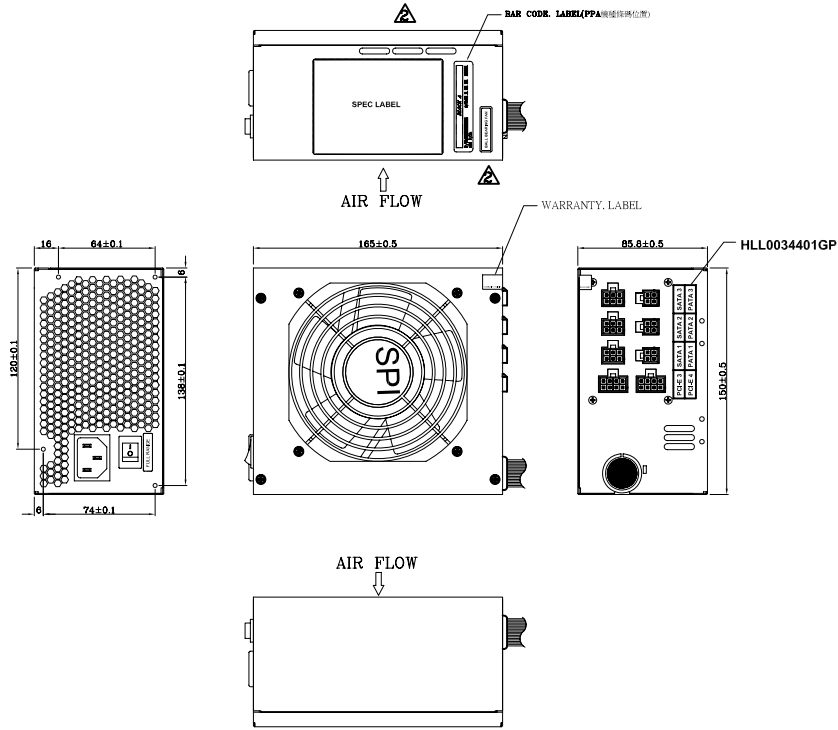


Specification

- **Temperature Range:** Operating:10°C ~ +40°C ; De-rate 10W/°C from 25°C to 40°C, 1000W 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

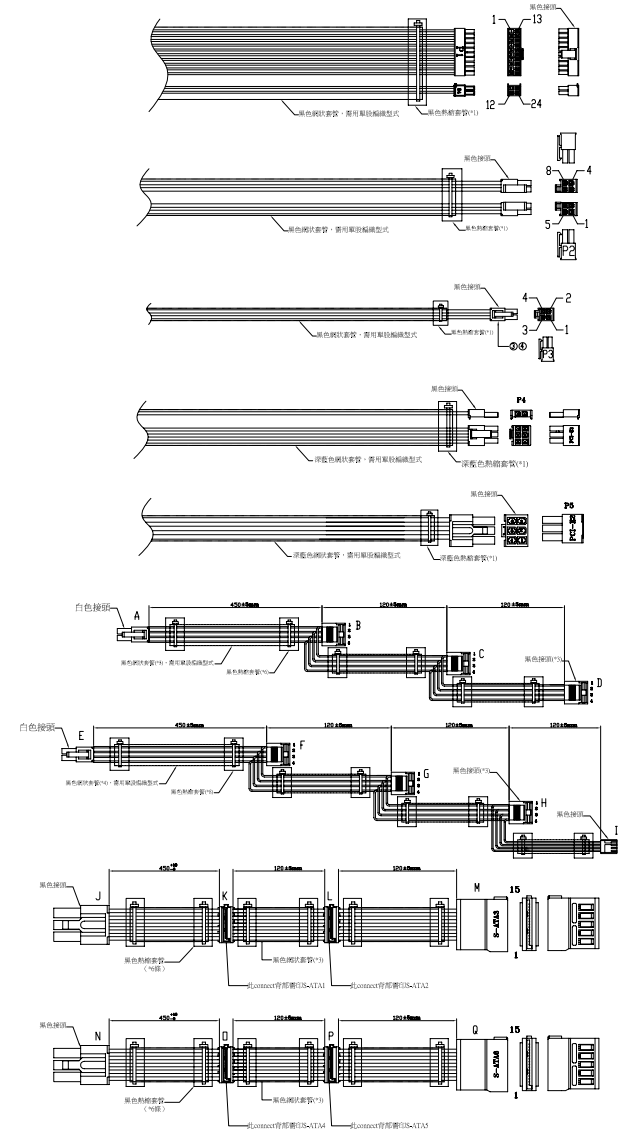
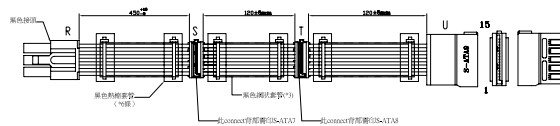
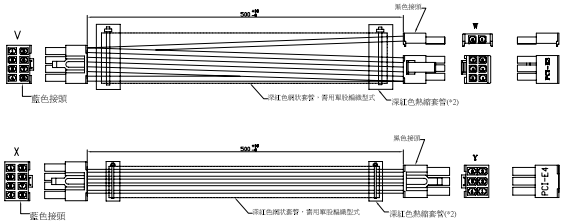
REF. ID.	PIN NO.	SIGNAL	WIRE COLOR	GAUGE	CONNECTOR TYPE	CABLE LENGTH	
P1	1	+3.3V	ORANGE	18	C42002H00-2P or EQUIV.	500±0.2 mm	
	2	+3.3V	ORANGE	18			
	3	COM	BLACK	18			
	4	+5V	RED	18			
	5	COM	BLACK	18			
	6	+5V	RED	18			
	7	COM	BLACK	18			
	8	PWR_OK	GRAY	24			
	9	+5Vsb	PURPLE	20			
	10	+12V3	YELLOW	18			
	11	+12V3	YELLOW	18			
	12	+3.3V	ORANGE	18			
	13	+3.3V	ORANGE	19			
	14	-12V	BLUE	24			
	15	COM	BLACK	18			
	16	PS_ON#	GREEN	24			
	17	COM	BLACK	18			
	18	COM	BLACK	18			
	19	COM	BLACK	18			
	20						
	21	+5V	RED	18			
	22	+5V	RED	18			
	23	+5V	RED	18			
	24	COM	BLACK	18			
P2	1	COM	BLACK	18	P4-142002K3B or EQUIV.	500±0.2 mm	
	2	COM	BLACK	18			
	3	COM	BLACK	18			
	4	COM	BLACK	18			
P3	5	+12V1	YEL/BLUE	18	MOLEX 39-01-2040 or EQUIV.	500±0.2 mm	
	6	+12V1	YEL/BLUE	18			
	7	+12V1	YEL/BLUE	18			
	8	+12V1	YEL/BLUE	18			
P4	1	COM	BLACK	18	JST PH-142002K3-B or PS-142002K3B-B	500±0.2 mm	
	2	+12V2	YEL/WHITE	18			
	3	+12V2	YEL/WHITE	18			
	4	COM	BLACK	18			
P5	1	+12V2	YEL/WHITE	18	JST C4202H00-2 or EQUIV.	500±0.2 mm	
	2	+12V2	YEL/WHITE	18			
	3	+12V2	YEL/WHITE	18			
	4	COM	BLACK	18			

CASE顏色為BLACK C 2X加亮光漆



* 12V Output Distribution List

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



P/N.:9PA10A0700

UNIT:mm

MODEL NO. : SPI1000GCM(S03001)		TITLE: ASSY			SHEET: 1 OF 1 REV:02	
R&D(8)	PE	CHECKED	DESIGN	DRAWN	DATE	
INTERIOR COUNTERSIGN:						