

05G Series Plug-in Switch Mode Power Supply Unit

INPUT

	MINIMUM	NORMAL	MAXIMUM
AC Input Voltage	90V AC	100 – 240V AC	264V AC
AC Input Frequency	47 Hz	50 / 60 Hz	63 Hz
AC Input Current – 230V AC (max)			0.15A
Input Power (max)			8.3W
AC Inrush Current* – 230V AC, 50Hz	No immediate damage or long term impact. Peak inrush current is limited to 60A for a cold start.		
Primary current protection	An internal fuse on the AC input line is provided.		
Configuration	Wall mount, AU-pin, 2-conductors, <Active, Neutral>		

Power consumption at no load

Input current	≤15mA
Input 230V AC 50 Hz	0.5W max

OUTPUT

MODEL	5V DC	6V DC	9V DC	12V DC
Normal DC Output Voltage	+5V	+6V	+9V	+12.0V
Maximum Load Current	1.00A	0.83A	0.55A	0.42A
Minimum Load Current	0.05A	0.05A	0.05A	0.05A
Rated Output Power	5.00W	5.00W	5.00W	5.00W
Load Regulation	±5% from 10% to 100% of rated load			
Ripple and Noise *	100mV			
Over-current Protection	Adaptor protected with 200% of rated output.			
Over-voltage Protection	Zener clamp. 9V maximum.			
Short-circuit Protection	The adaptor shall not be damaged by shorting the DC output to Ground with auto recovery functioning correctly.			
Hold-up Time (min) **	10mS			
Output over-shoot	<7% of nominal voltage value			
Temperature coefficient	Output voltage temperature coefficient ±0.05%/°C			
Turn-on Delay (max) **	2 Seconds			
Rise Time	Start-up rise time of <20mS to rise to within regulation limits			
Efficiency	60% minimum at normal input voltage and full load.			

* Voltage measured P-P at 20MHz and output parallel with 100nF ceramic & 10uF electrolytic capacitors to ground. Temperature at 25°C and nominal AC input voltage.

** At nominal AC voltage and full load.

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Dimensions	57(H) x 41(W) x 33(D)mm.
Weight	85g maximum.
Input Plug Type	Wall type, SAA 2-pin AS/NZS3112:2000
Output Cord	Wire: 22AWG/2C, 2000mm.
Output Plug	DC Barrel Plug (with fork & groove). 11x5.5x2.1mm

ENVIRONMENTAL

Cooling	Natural convection.
Operating Temperature	0°C to +40°C
Storage Temperature	-20°C to +80°C
Operating Humidity	10 ~ 90 % Non-condensing
Storage Humidity	10 ~ 90 % Non-condensing

SAFETY

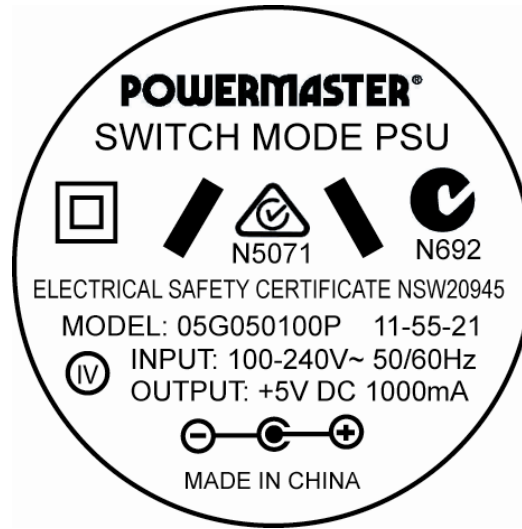
Dielectric withstanding voltage test (Hi-pot test) input to output	3000V AC 10mA for 1 minute..
Insulation Resistance	10MΩ at 500V DC between Primary Active, Neutral line and secondary.
Leakage Current	0.25mA maximum at normal AC input voltage and frequency

RELIABILITY

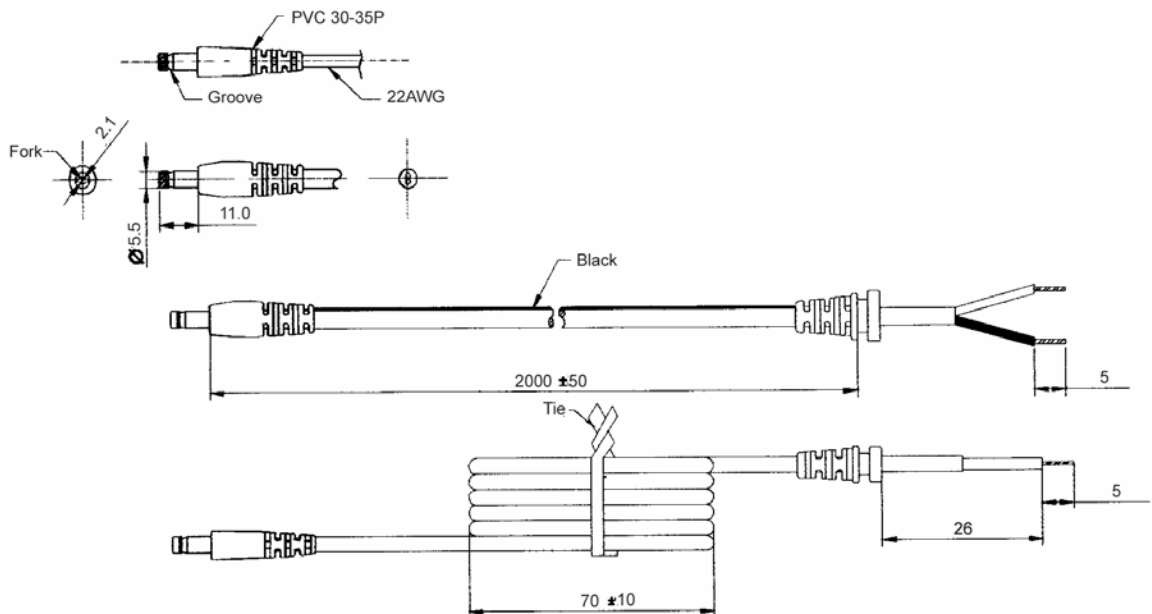
Mean Time Between Failure (MTBF)	The power supply is designed to have a MTBF of 50,000 hours.
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RATING PLATE



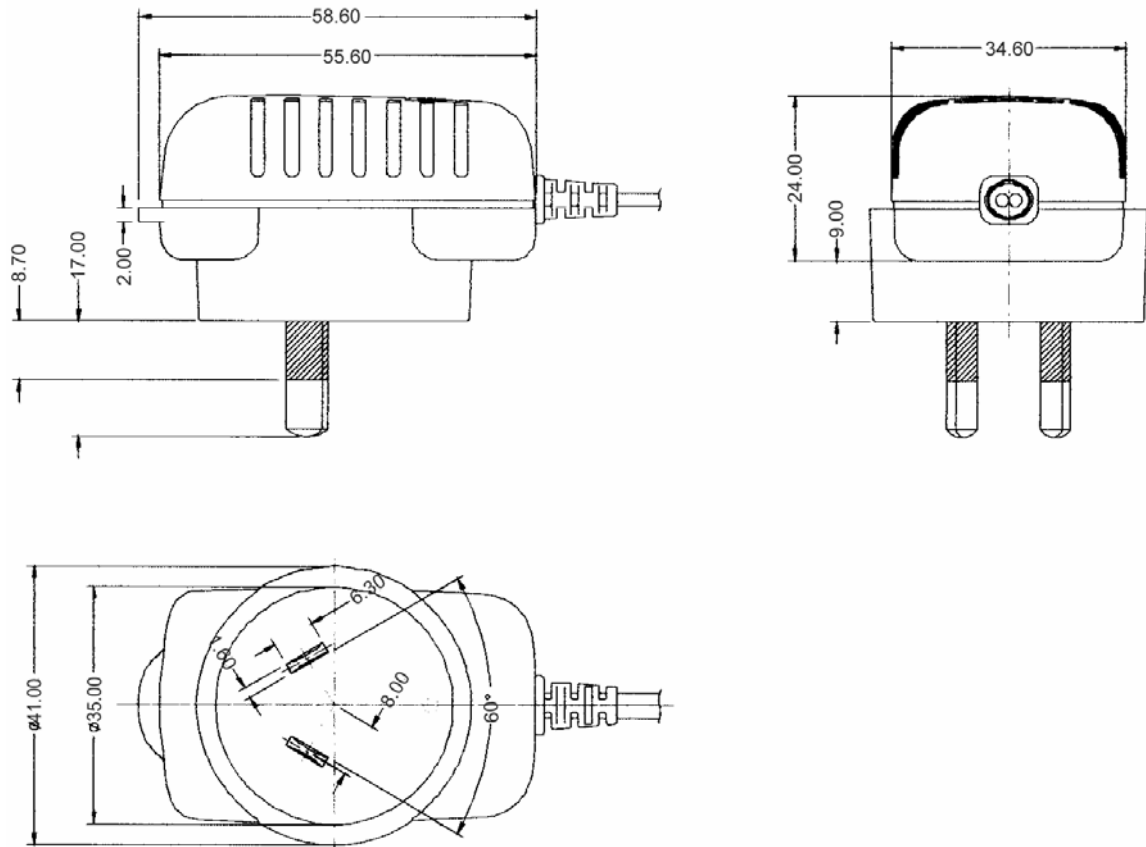
DC OUTPUT CORD DRAWING



Wire type: 2464 2000mm 80°C 300V 3.50o 2C 22AWG BLACK
Jacket material: PVC (94V-0)

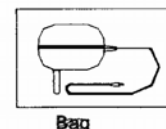
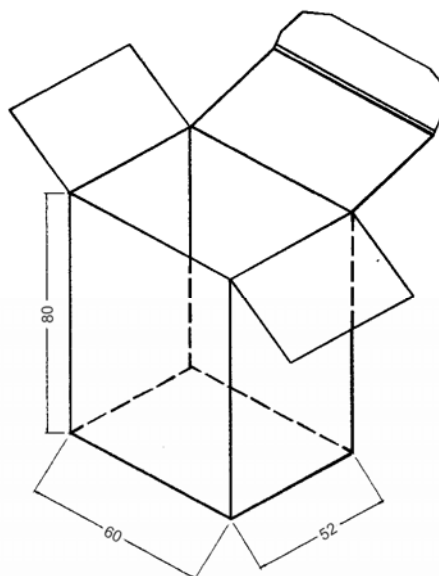
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PRODUCT OUTLINE DRAWING



Case cover & chassis: PPHOX (UL94V-1) BLACK (LEAD FREE)
AC Pin: BRASS (NI PLATED)

PACKING DRAWING



Material: 400g (LEAD FREE)