

15D T0920P21 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 – 115V AC			0.4A
AC Inrush Current* – 115V AC, 60Hz	No damage shall be incurred and the input fuse shall not blow.		
AC Inrush Current* – 230V AC, 50Hz	No damage shall be incurred and the input fuse shall not blow.		
Primary current protection	An internal fuse on the AC input line is provided.		
Configuration	Wall mount, AS-pin, 2-conductors, <Active, Neutral>		

* At full-load, 25°C, cold start.

OUTPUT

Normal DC Output Voltage	+9.0V
Minimum Load Current	0.0A
Maximum Load Current	2.0A
Maximum Output Power	18W
Ripple and Noise *	90mV
Over-voltage Protection	13.0V DC maximum with Zener clamp.
Total Output Regulation	+/- 5%
Line Regulation	+/- 2% at nominal voltage and full load.
Short-circuit Protection	5W maximum with auto-recovery function.
Drop-out **	With half-cycle input voltage drop-out, the unit shall be operated within the prescribed voltages with a drop-out pulse repetition rate of 500mS.
Efficiency	65% minimum at normal input voltage and full load.

* Voltage measured P-P at 20MHz and output parallel with 0.1uF & 47uF capacitor to ground. Temperature at 25°C and 230V AC input voltage.

** At nominal AC voltage and full load.

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MECHANICAL

Dimensions	82(L) x 54(W) x 52.3(H)mm.
Weight	180g maximum.
Input Plug Type	Wall-mount type, AS-pin, 2-conductors, <Active, Neutral>
Output Cord	Wire: 18AWG/2C, 1828mm.
Output Plug	5.5(L) x 2.1(D) x 1.11(ID)mm.

ENVIRONMENTAL

Cooling	Natural convection.
Operating Temperature	0°C to +40°C
Storage Temperature	-20°C to +60°C
Operating Humidity	20 ~ 85 % RH. Non-condensing
Storage Humidity	5 ~ 95 % RH. Non-condensing

SAFETY

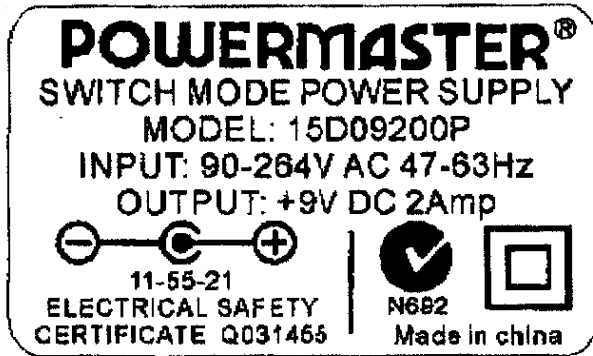
Dielectric withstanding voltage test (Hi-pot test) input to output	3000V DC 10mA for 1 minute OR 3600V AC 10mA 1 Second OR 4242V DC 10mA 3 Seconds
Insulation Resistance	> 50MΩ at 500V DC between Primary Active, Neutral line and secondary.
Leakage Current	0.25mA maximum at normal AC input voltage and frequency

RELIABILITY

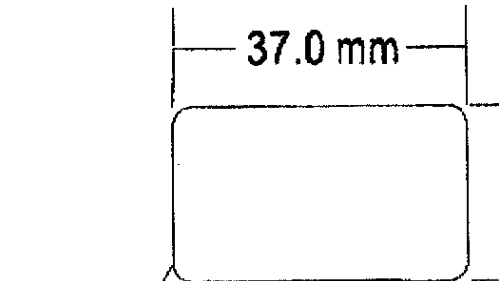
Mean Time Between failure (MTBF)	The power supply is designed to have a MTBF of 50,000 operating hours at 90% confidence-level while operating under the following burn-in condition.
Burn-in Test	4 hours at 40°C Max, normal input voltage, 80% of maximum load.

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RATING PLATE



2:1



1:1

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PACKING DRAWING

