

15D 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 – 115V AC			0.4A
AC Input Current – 230V AC			0.2A
AC Inrush Current* – 115V AC, 60Hz			30A
AC Inrush Current* – 230V AC, 50Hz			50A
Primary current protection	An internal fuse on the AC input line is provided.		
Configuration	Wall-mount type, SAA-pin, 2-conductors, <Active, Neutral>		

* At full-load, 25°C, cold start.

OUTPUT

MODEL	5V	6V	12V	15V	18V
Normal DC Output Voltage	+5.0V	+6.0V	+12.0V	+15.0V	+18.0V
Minimum Load Current	0.0A	0.0A	0.0A	0.0A	0.0A
Maximum Load Current	2.8A	2.5A	1.5A	1.2A	1.0A
Maximum Output Power	14W	15W	18W	18W	18W
Ripple and Noise *	50mV	Not available	120mV	150mV	180mV
Over-voltage protection (max)	6.5V DC.	Not available	15.75V DC.	18.9V DC.	21V DC.
Total Output Regulation	+/- 5%				
Dynamic Load Regulation **	+/- 5%				
Short-circuit protection	5W maximum with auto-recovery function				
Efficiency	65% minimum at normal input voltage and full load.				
Drop-out	With half cycle input voltage drop-out, the unit shall meet the regulation requirement and operate within the prescribed voltages with a drop-out pulse repetition rate of 500mS under full load and with normal AC input voltage.				

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

** For 50% ~ 100% ~ 50% load change at any frequency up to 250Hz with 50% duty.

MECHANICAL

Dimensions	81(L) x 53(W) x 51(H)mm.
Weight	180g maximum.
Input Plug Type	Wall-mount type, SAA-pin, 2-conductors, <Active, Neutral>
Output Cord	Wire: SPT-1, VW-1, 20AWG, 1828mm.
Output Plug	11(L) x 5.5(D) x 2.1(ID)mm OR 11(L) x 5.5(D) x 2.5(ID)mm

15D Series Plug-in Switch Mode Power Supply Unit

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

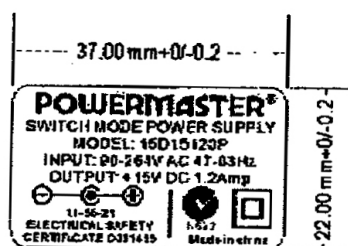
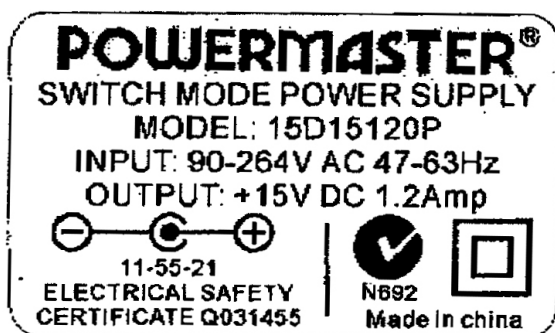
SAFETY

Dielectric withstanding voltage test (Hi-pot test) input to output	3,000V AC, 10mA, 1 second OR 4,242V DC, 10mA, 1 second.
Insulation Resistance	> 100MΩ at 500V DC between Primary Active, Neutral line and secondary.
Leakage Current	0.25mA maximum at normal AC input voltage and frequency

RELIABILITY

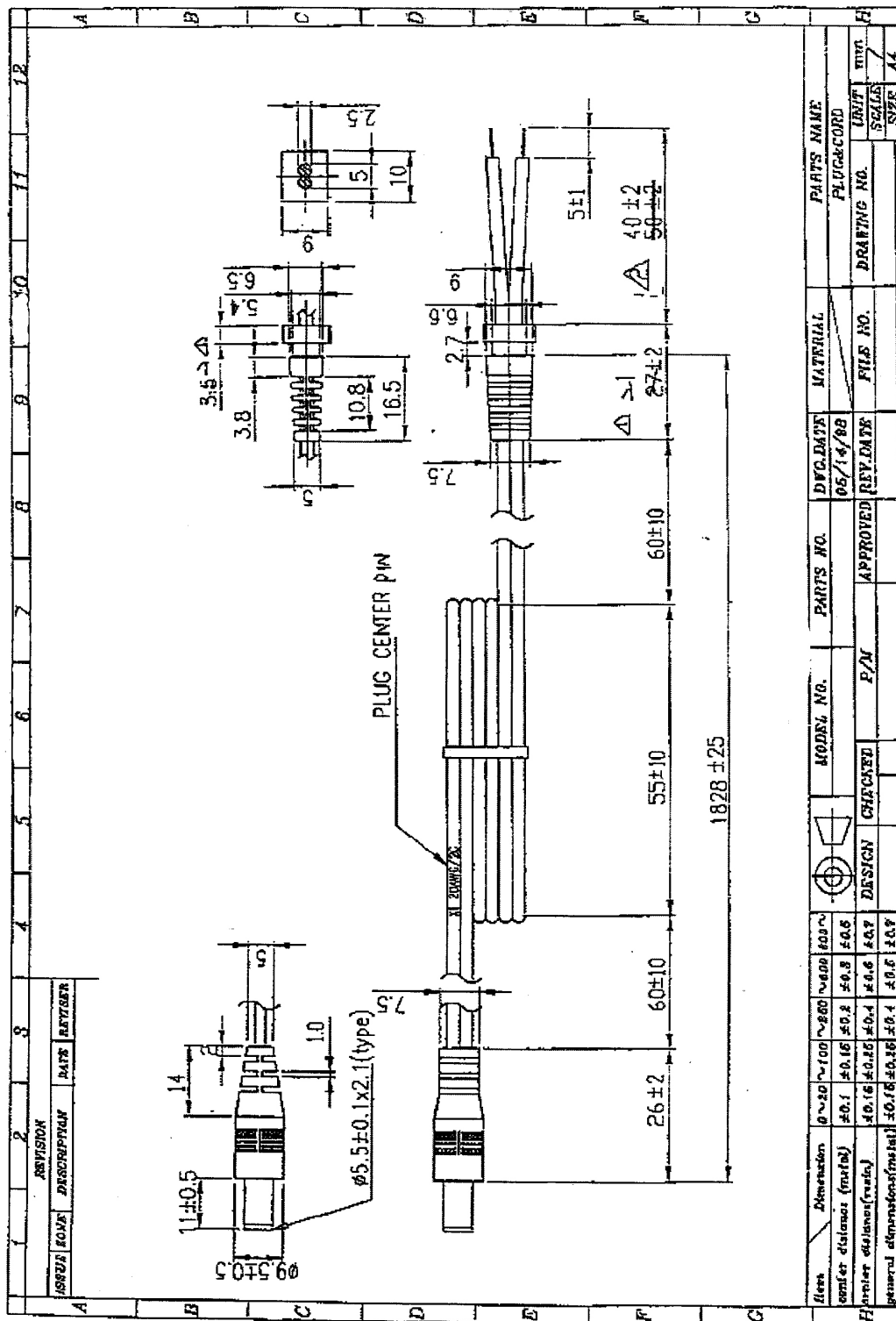
Mean Time Between failure (MTBF)	The power supply is designed to have a MTBF of 50,000 operating hours at 90% confidence-level while operating under the following burn-in condition.
Burn-in Test	4 hours at 40°C +/- 5°C, normal input voltage, 80% of maximum load.

RATING PLATE

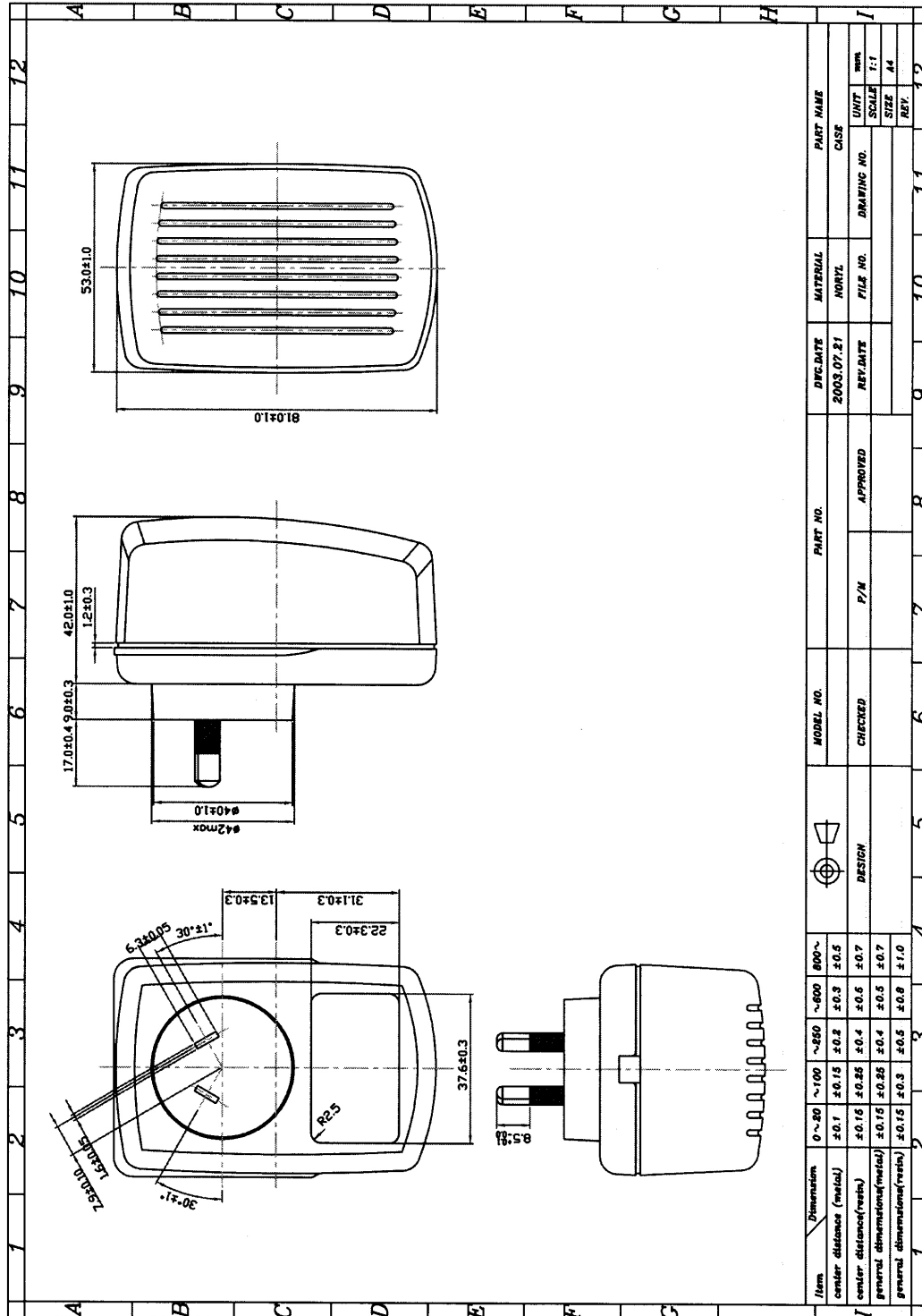


15D Series Plug-in Switch Mode Power Supply Unit

DC OUTPUT CABLE DRAWING



PRODUCT OUTLINE DRAWING



15D Series Plug-in Switch Mode Power Supply Unit

PACKING DRAWING

