

## 100 Watt, HRP-100 Series, Enclosed Power Supply

**ALL PSU LTD**  
Electronic Power Solutions

- Universal AC Input With Active PFC
- Cooling By Free Air Convection
- Ultra High Reliability, 5 Year Warranty
- Short Circuit, Over Voltage, Over Load Protection
- Full Approvals : UL/CUL/TUV/CB/CE
- Remote On/Off Control
- High Efficiency Up To 90%
- No Load Power Consumption <0.5 Watts
- Withstand 300VAC Surge Input for 5 Seconds



### Specification

Input Voltage.....	.85~264 VAC, 47~63 Hz (120-370 VDC)
Power Factor.....	0.95 @ 230 VAC, 0.98 @ 115 VAC
Inrush Current.....	(typ.) 35A / 115VAC, 65A / 230VAC
Output Voltage.....	See table below (plus +10%, -5% typ pot adjustment range)
Over Load Protection.....	105~135% O/P Constant current limiting, auto recovery
Over Voltage Protection.....	115~145% depending on model
Set Up, Rise, Hold Up Time.....	(typ.) 2500ms, 50ms, 50ms @ Full Load 230 VAC
Withstand Voltage.....	I/P-O/P: 3 kVAC, I/P-F/G: 1.5kVAC, O/P-F/G: 0.5kVAC
Operating Temperature .....	-40 to +60 °C, see derating curve
Safety Standards.....	UL60950-1 TUV EN60950-1
EMC.....	EN55022, (CISPR22) Class B, EN61000-4-2,3,4,5,6,8,11 EN61000-3-2,3 ENV50204, EN55024, EN61000-6-2, Heavy Industrial Level Criteria A
MTBF.....	295.7K hrs, MIL-HDBK-217F @ 25°C
Mechanical .....	159 x 97 x 38 mm
Connections Input & Output.....	Screw Terminals

### Models and Ratings

Model	Output Voltage	Output Range	Max Output Current	Efficiency
HRP-100-3.3	3.3 V	3.1 to 3.8 V	20.0 A	78 %
HRP-100-5	5.0 V	4.75 to 5.8 V	17.0 A	83 %
HRP-100-7.5	7.5 V	7.1 to 9 V	13.5 A	84 %
HRP-100-12	12 V	11.4 to 13.8 V	8.5 A	87.5 %
HRP-100-15	15 V	14.25 to 18 V	7.0 A	88 %
HRP-100-24	24 V	22.8 to 28.8 V	4.5 A	88.5 %
HRP-100-36	36 V	34.2 to 39.6 V	2.9 A	89 %
HRP-100-48	48 V	45.6 to 55.2 V	2.2 A	90 %

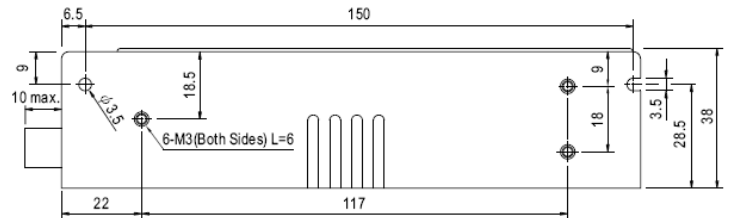
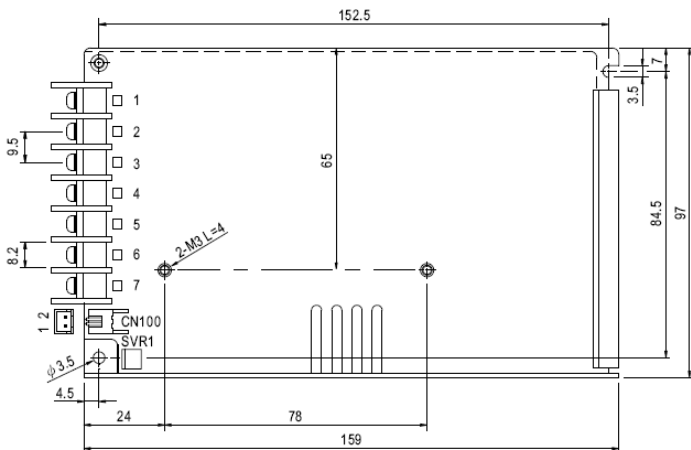
Please see next page for mechanical drawings.

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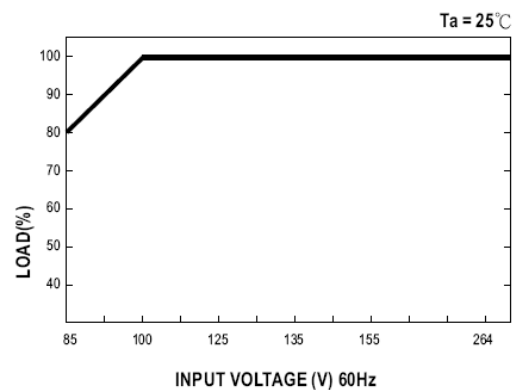
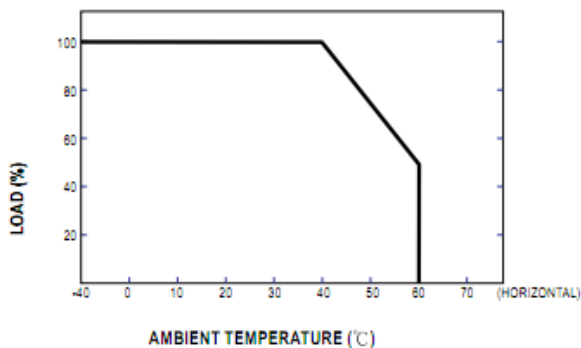
## Mechanical Drawings.



AC Input & DC Output Connections			
Terminal	Function	Terminal	Function
1	AC Live	4, 5	DC Output -V
2	AC Neutral	6, 7	DC Output +V
3	Input Earth		

Connector Pin No Assignment (CN100) : JST B-XH Or Equivalent			
Pin No	Assignment	Mating Housing	Terminal
1	Remote on/off -	JST XHP Or Equivalent	JST SXH-001T Or Equivalent
2	Remote on/off +		

## Derating, (Input AC Supply & Temperature)



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