

150 Watt, HRP(G)-150 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 (G Option)
- Built in Remote Sense Function
- No Load Power Consumption <0.5 W (G Option)
- 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, 0.99 @ 115 VAC
Inrush Current.....	(typ.) 35A / 115VAC, 70A / 230VAC
Output Voltage.....	See table below (plus +/-15% typ pot adjustment range)
Over Load Protection.....	105~135% O/P Constant current limiting, auto recovery
Over Voltage Protection.....	115~145%
Over Temperature Protection.....	Shuts Down, Automatic recover when cooled
Set Up, Rise, Hold Up Time.....	(typ.) 3000ms, 50ms, 16ms @ 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 +70 °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.....	213.4K hrs, MIL-HDBK-217F @ 25°C
Mechanical	159 x 97 x 38 mm
Connections Input & Output.....	Screw Terminals

Models and Ratings

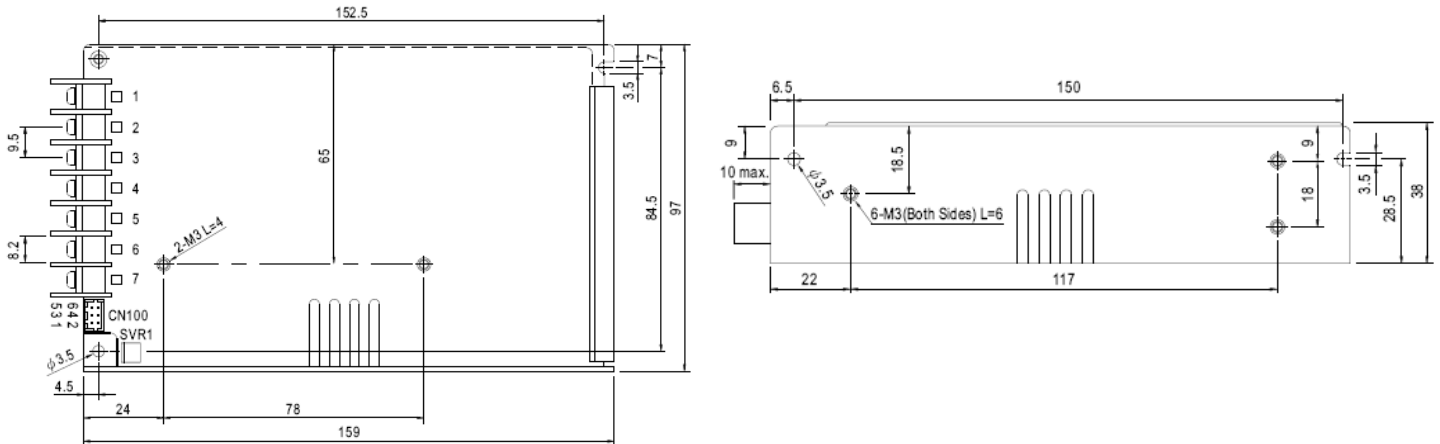
Model	Output Voltage	Output Range	Max Output Current	Efficiency
HRP(G)-150-3.3	3.3 V	2.8 to 3.8 V	30.0 A	78.5 %
HRP(G)-150-5	5 V	4.3 to 5.8 V	26.0 A	84 %
HRP(G)-150-7.5	7.5 V	6.8 to 9 V	20.0 A	86 %
HRP(G)-150-12	12 V	10.2 to 13.8 V	13.0 A	87 %
HRP(G)-150-15	15 V	13.5 to 18 V	10.0 A	87 %
HRP(G)-150-24	24 V	21.6 to 28.8 V	6.5 A	87 %
HRP(G)-150-36	36 V	28.8 to 39.6 V	4.3 A	88 %
HRP(G)-150-48	48 V	40.8 to 55.2 V	3.3 A	88 %

Note : (G) versions include 5 Volt stand-by and <0.5 Watt No Load Input Current.

Please see next page for mechanical drawings.

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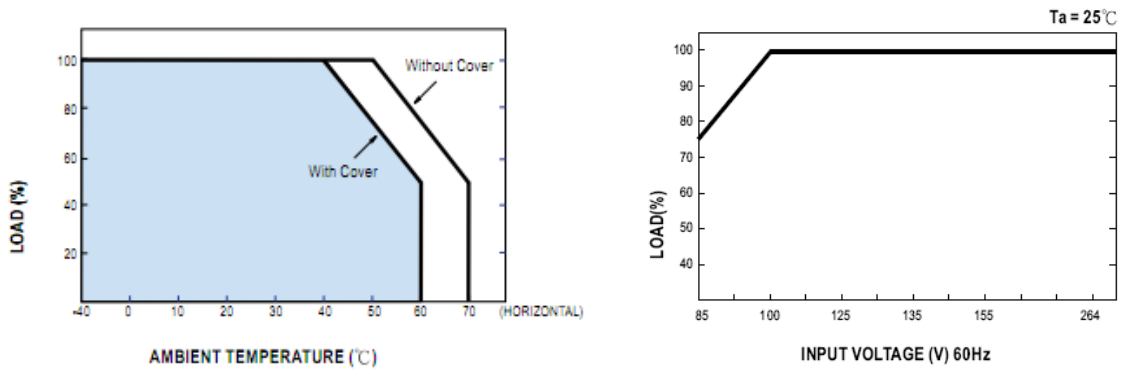
Mechanical Drawings.



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) :HRS DF11-6DP-2DS Or Equivalent (G Option includes all functions, standard unit has no connections on pins 3 to 6)			
Pin No	Assignment	Mating Housing	Terminal
1	- Sense	HRS DF11-6DS Or Equivalent	HRS DF11-**SC Or Equivalent
2	+ Sense		
3	AUX Ground		
4	AUX (5 Volts)		
5	Remote on/off -		
6	Remote on/off +		

Derating, (Input AC Supply & Temperature)



Function Description of CN100

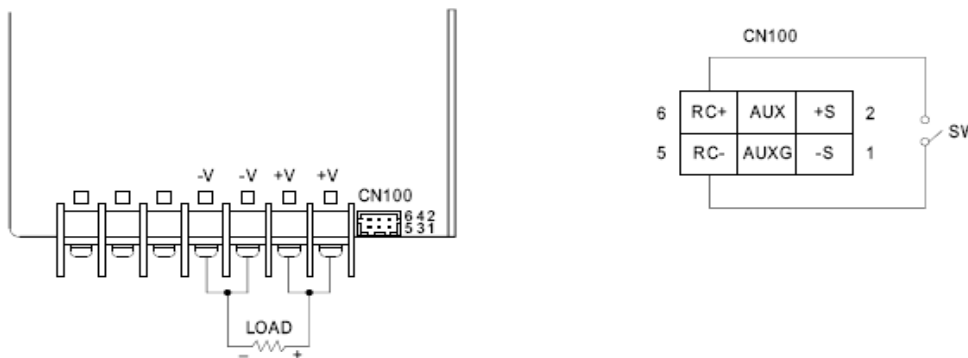
Connector Pin No Assignment (CN100) :HRS DF11-6DP-2DS Or Equivalent, Functions on pins 3-6 only present on G Option units.		
Pin No	Assignment	Description
1	- S	Negative sensing. The -S signal should be connected to the negative terminal of the load. The -S and +S leads should be twisted in pair to minimise noise pick-up effect. The maximum line drop compensation is 0.5V
2	+ S	Positive Sensing. The +S signal should be connected to the positive terminal of the load. The -S and +S leads should be twisted in pair to minimise noise pick-up effect. The maximum line drop compensation is 0.5V
3	AUXG	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V)
4	AUX	Auxiliary voltage output ground, 4.6-5.25V, referenced to pin 3(AUXG). The maximum load current is 0.3A. This output has the built-in oring diodes and is not controlled by the "remote ON/OFF control".
5	RC-	Remote control ground
6	RC+	Turns the output on and off by electrical or dry contact between pin 5 (RC-). Short : Power OFF, Open: Power ON

Function Manual

1.Remote Control

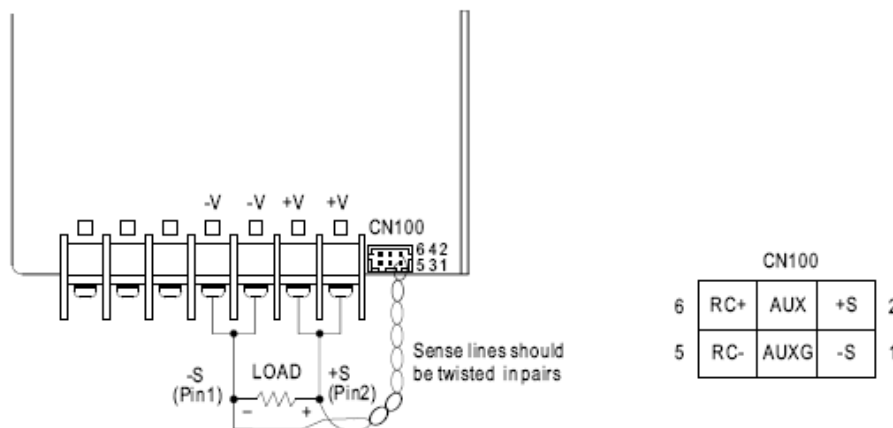
The PSU can be turned ON/OFF by using the "Remote ON/OFF Function"

Between RC-(pin5) and RC+(pin6)	Output Status
SW ON (Short)	OFF
SW OFF (Open)	ON



2.Remote Sense

The remote sensing compensates voltage drop on the load wiring up to 0.5V



Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.