750 Watt, RSP-750 Series, Enclosed Power Supply

- **Universal AC Input with PFC**
- **High Efficiency up to 92%**
- **High Reliability, 3 Year Warranty**
- **Short Circuit, Over Voltage, Over Load, Over Temperature Protection / Fan Alarm**
- **Full Approvals : UL/CUL/TUV/CB/CE**
- **Remote On/Off Control**
- **Remote Sense, Power Good Signal**
- **Wide Output Trim 40-110%**
- **1U Low Profile 41mm**
- **Auxiliary Output 12 Volts 0.1 Amps**

Specification

Input Voltage..... .90~264 VAC, 47~63 Hz (120-370 VDC)
Power Factor.....0.97 @ 230 VAC, 0.98 @ 115 VAC
Output Voltage.....See table below (plus min +/- 10% potentiometer adjustment range)
Output Voltage Trim Facility……40-110% By External Resistor or Voltage
Over Load Protection.....105~125% O/P Constant Current
Over Voltage Protection..... Dependant On Model, typically 135%
Set Up, Rise, Hold Up Time.....typ 1000ms, 50ms, 16ms @ Full Load
Withstand Voltage…….....I/P-O/P: 3 kVAC, I/P-F/G: 2kVAC, O/P-F/G: 0.5kVAC
Operating Temperature …….... -30 to +70 °C, see derating curve
Safety Standards.....UL60950-1 TUV EN60950-1
EMC..... EN55022, (CISPR22) EN61000-4-2,3,4,5,6,8,11
EN61000-3-2,3 ENV50204, EN55024, EN61000-6-2
EN61204-3 Heavy Industrial Level Criteria A
Mechanical Size & Weight…….....250 x 127 x 41 mm, 1.64 Kg
Connections Input & Output.....Screw Terminals / Studs

Models and Ratings

Model	Output Voltage	Output Voltage Trim Range	Maximum Output Current	Efficiency
RSP-750-5	5 Volts	2 to 5.5 Volts	100 Amps	82 %
RSP-750-12	12 Volts	4.8 to 13.5 Volts	62.5 Amps	87 %
RSP-750-15	15 Volts	6 to 16.5 Volts	50 Amps	89 %
RSP-750-24	24 Volts	9.6 to 26.4 Volts	31.3 Amps	90.5 %
RSP-750-27	27 Volts	10.8 to 30 Volts	27.8 Amps	90.5 %
RSP-750-48	48 Volts	19.2 to 55 Volts	15.7 Amps	92 %

Please see next page for mechanical drawings.

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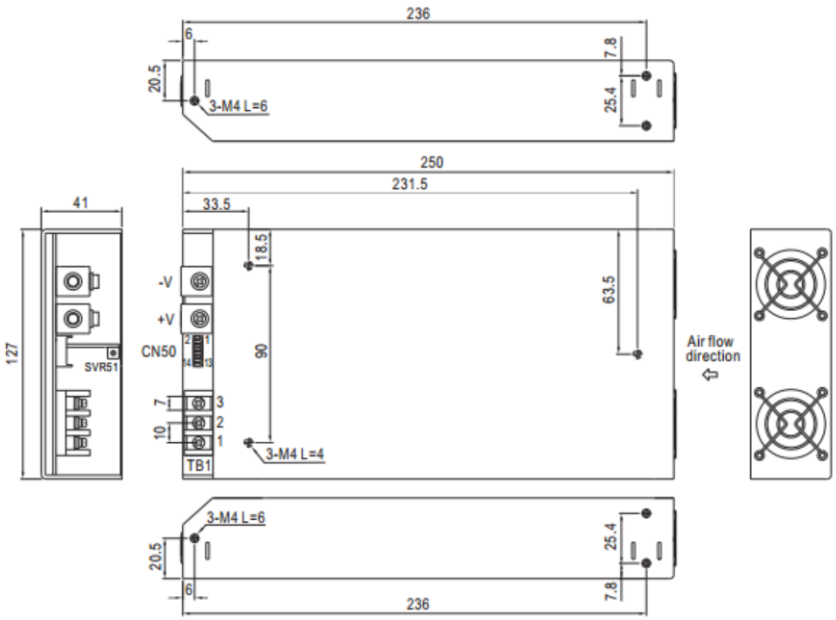
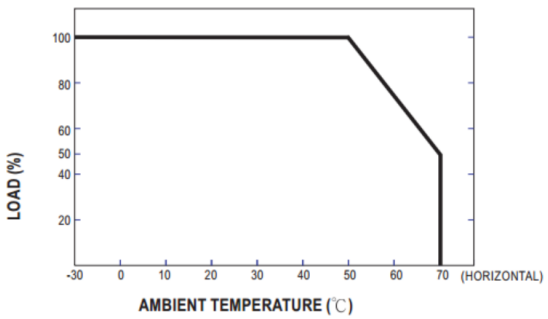
Mechanical Drawings.



AC Input Connections	
Terminal	Function
1	AC Neutral
2	AC Live
3	Input Earth

Derating curve :



Control Pin No. Assignment (CN50) : HRS DF11-14DP-2DS Or Equivalent					
Pin No	**Assignment**	**Pin No**	**Assignment**	**Mating Housing**	**Terminal**
1	+S	8	PO	HRS DF11-12DS Or Equivalent	HRS DF11-**SC Or Equivalent
2	+VS	9	DC-OK		
3	-S	10	GND		
4	-VS	11	GND		
5	PV	12	G-Aux		
6	PS	13	ON/OFF		
7	PC	14	12V-Aux		

***The power supply will have no output if the shorting connector CN50 is not assembled. It contains 3 shorting wires: one is from on/off (pin13) to 12V-Aux (pin14), 2nd is from PC (pin7) to PO (pin8) and the 3rd is from PV (pin5) to PS (pin6)**

Function Description of the CN50 signal connections

Pin No.	Function	Description
1	+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 minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
2	+VS	+V Signal. The +VS should be connected to the +S to reduce the noise when "output voltage TRIM" function is in use.
3	-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 minimize noise pick-up effect. The maximum line drop compensation is 0.5V.
4	-VS	-V Signal. The -VS should be connected to the -S to reduce the noise when "output voltage TRIM" function is in use.
5	PV	Connect to external DC voltage source for output voltage triming, referenced to pin 10,11 (GND). Output voltage can be trimmed between 40 ~ 110% of the rated output voltage.
6	PS	Short connecting between PV (pin5) and PS (pin6) if "output voltage TRIM" function is not used.
7	PC	Connect to external DC voltage source for output current triming, referenced output current can be trimmed between 40 ~ 110% of the rated output current. Please refer to function manual for details.
8	PO	Short connecting between PC (pin7) and PO (pin8) if output current trim function is not used.
9	DC_OK	Open collector signal, referenced to pin10,11(GND). Low when PSU turns on. The maximum sink current is 10mA and the maximum external voltage is 5.6V.
10,11	GND	These pins connect to the negative terminal (-V). Return for DC_OK Signal output.
12	G-AUX	Auxiliary voltage output ground. The signal return is isolated from the output terminals (+V & -V).
13	ON/OFF	Turns the output on and off by electrical or dry contact between pin 13 (ON/OFF) and pin 14 (12V-AUX). Short: Power ON, Open: Power OFF.
14	12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to pin 12(G-AUX). The maximum load current is 0.1A. This output is not controlled by the "remote ON/OFF control".

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