2000 Watt, RSP-2000 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**
- **Full Approvals : UL/CUL/TUV/CB/CE**
- **Remote On/Off Control**
- **Remote Sense, Power Good Signal**
- **Wide Output Trim 40-115%**
- **1U Low Profile 41mm**
- **Auxiliary Outputs : 5 Volts/0.3A & 12 Volts 0.8 Amps**
- **Active current sharing up to 8000 Watts**

Specification

Input Voltage..... .90~264 VAC, 47~63 Hz (120-370 VDC)
Power Factor.....0.97 @ 230 VAC,
Output Voltage.....See table below
Output Voltage Trim Facility……40-115% By External 0-5 Volts
Over Load Protection.....105~125% O/P Constant Current
Over Voltage Protection..... Dependant on model, typically 135%
Set Up, Rise, Hold Up Time.....typ 1500ms, 60ms, 10ms @ Full Load
Withstand Voltage…….....I/P-O/P: 3 kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC
Operating Temperature ……..... -35 to +70 °C, see derating curve
Safety Standards.....UL60950-1 TUV EN60950-1
EMC..... EN55022, (CISPR22) Conduction Class B, Radiation Class A
EN61000-4-2,3,4,5,6,8,11
EN61000-3-2,3, EN61000-6-2 (EN50082-2)
Heavy Industrial Level Criteria A
Mechanical Size & Weight……..295 x 127 x 41 mm, 1.95 Kg
Connections Input & Output.....Screw Terminals / Studs

Models and Ratings

Model	Output Voltage	Output Voltage Trim Range	Maximum Output Current	Efficiency
RSP-2000-12	12 Volts	7.2 to 13.8 Volts	100 Amps	87 %
RSP-2000-24	24 Volts	9.6 to 27.6 Volts	80 Amps	90.5 %
RSP-2000-48	48 Volts	19.2 to 55.2 Volts	42 Amps	92 %

Please see next page for mechanical drawings.

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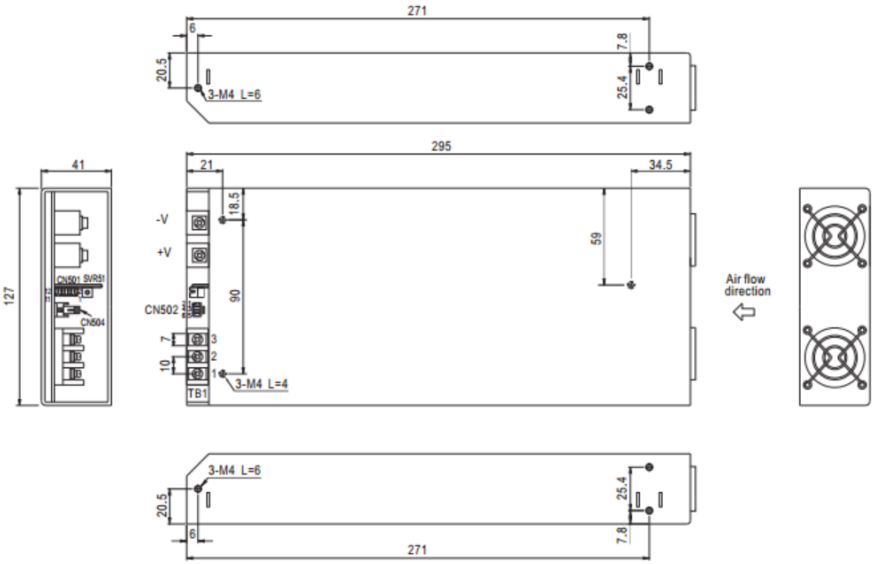
Mechanical Drawings



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

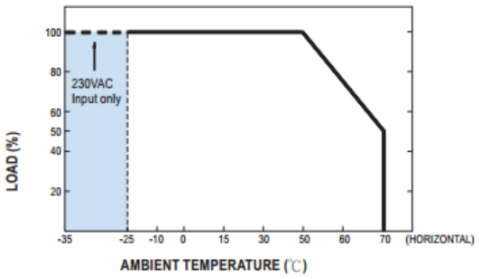
Control Pin No. Assignment (CN502) : HRS DF11-6DP-2DSA Or Equivalent

Pin No	Assignment	Mating Housing	Terminal
1,2	DA	HRS DF11-6DS Or Equivalent	HRS DF11-**SC Or Equivalent
3,4	DB		
5,6	GND		

Control Pin No. Assignment (CN501) : HRS DF11-12DP-2DS Or Equivalent

Pin No	Assignment	Pin No	Assignment	Mating Housing	Terminal
1	+S	7	ON/OFF	HRS DF11-12DS Or Equivalent	HRS DF11-**SC Or Equivalent
2	-S	8	GND-Aux		
3	PV	9	GND-Aux		
4	GND	10	GND-Aux		
5	DC-OK	11	+5V-Aux		
6	T-Alarm	12	+12-Aux		

Derating curve :



Function Description of the CN501 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	-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.
3	PV	Connection for output voltage trimming. The voltage can be trimmed within its defined range. (Note.1)
4	GND	This pin connect to the negative terminal(-V).
5	DC-OK	High : When the Vout ≦80%±6%. Low : When Vout ≧80%±6%. (Note.2)
6	T-ALARM	High : When the internal temperature (TSW1 or TSW2 open) exceeds the limit of temperature alarm. Low : When the internal temperature (TSW1 or TSW2 short) under the limit temperature. (Note.2)
7	ON/OFF	The unit can turn the output on and off by electrical signal or dry contact. (Note.2)
8,9,10	GND-AUX	Auxiliary voltage output GND. The signal return is isolated from the output terminals (+V & -V).
11	+5V-AUX	Auxiliary voltage output, 4.5~5.5V, referenced to GND-AUX (pin). 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.
12	+12V-AUX	Auxiliary voltage output, 10.6~13.2V, referenced to GND-AUX (pin). The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by the remote ON/OFF control.

Note1: Non-isolated signal, referenced to the output terminals (-V).
Note2: Isolated signal, referenced to GND-AUX.

Function Description of the CN502 signal connections

Pin No.	Function	Description
1,2	DA	Differential digital signal for parallel control.
3,4	DB	Differential digital signal for parallel control.
5,6	GND	These pins connect to the negative terminal (-V).

Function Description of the CN504 signal connections

Pin No.	Function	Description
1,2	Terminal resistance	CN504 is the selector of terminal resistor that is designed for DA/DB signals and parallel control function.

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