



## Features:

- Universal AC input / Full range
- · AC input active surge current limiting
- High efficiency up to 92%
- Built-in 12V/0.1A auxiliary power
- Built-in active PFC function, PF>0.97
- Protections: Short circuit / Overload / Over voltage / Over temperature / Fan alarm
- Output voltage can be trimmed between 40 ~ 110% of the rated output voltage
- Output OLP can be trimmed between 40 ~ 110% of the rated output current
- Forced air cooling by built-in DC fan
- High power density 9.5w/inch³
- 1U low profile 41mm
- DC OK Signal
- Built-in remote ON-OFF control
- · Built-in remote sense function
- · 3 years warranty

#### **SPECIFICATION**



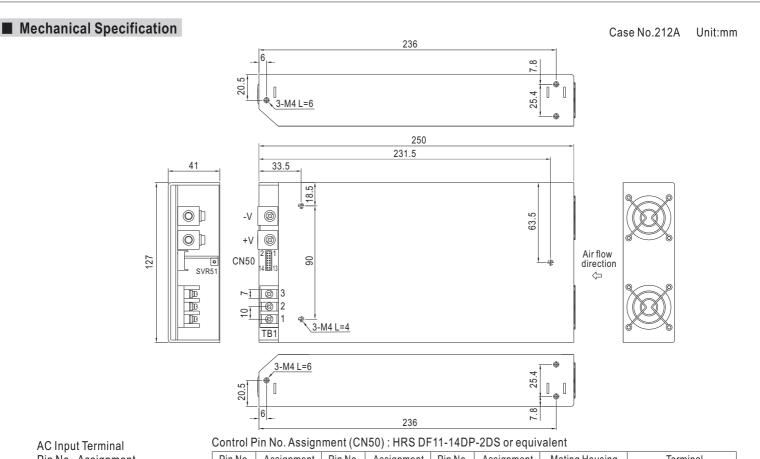
DE CIFIC	Allon									
MODEL		RSP-750-5	RSP-750-12	RSP-750-15	RSP-750-24	RSP-750-27	RSP-750-48			
	DC VOLTAGE	5V	12V	15V	24V	27V	48V			
	RATED CURRENT	100A	62.5A	50A	31.3A	27.8A	15.7A			
	CURRENT RANGE	0 ~ 100A	0 ~ 62.5A	0 ~ 50A	0 ~ 31.3A	0 ~ 27.8A	0 ~ 15.7A			
	RATED POWER	500W	750W	750W	751.2W	750.6W	753.6W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 55V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%			
	SETUP, RISE TIME	1000ms, 50ms at full load								
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load								
		5 90 ~ 264VAC 127 ~ 370VDC								
	FREQUENCY RANGE									
	POWER FACTOR (Typ.)	47 ~ 63Hz 0.97/230VAC 0.98/115VAC at full load								
INPUT	,	82%	87%	89%	91%	91%	92%			
INFUI	AC CURRENT (Typ.)		1 11	1111		1	9270			
	· · · · · · · · · · · · · · · · · · ·	5V : 5.6A/115VAC	2.8A/230VAC	12V~48V : 8.2A/1	15VAC 3.9A/230\	VAC				
	INRUSH CURRENT (Typ.)		0A/230VAC							
	LEAKAGE CURRENT	<2.0mA / 240VAC								
	OVERLOAD	105 ~ 125% rated ou								
					cally after fault condition					
PROTECTION	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	56.6 ~ 66.2V			
		Protection type: Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	85°C±5°C (TSW2) detect on heatsink of O/P diode; 80°C±5°C (TSW1) detect on heatsink of power transistor								
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down								
	AUXILIARY POWER(AUX)	12V @ 0.1A (±10%)								
	REMOTE ON/OFF CONTROL Note.6	Power on : short between on/off(pin13) & 12V-AUX(pin14) on CN50 Power off : open between on/off(pin13) & 12-AUX(pin14) on CN50								
FUNCTION	DC OK SIGNAL			/; PSU turn off = 3.3						
	OUTPUT VOLTAGE TRIM Note.6	Adjustment of outpu	t voltage is possible	between 40 ~ 110% o	of rated output					
	OUTPUT OLP TRIM	Adjustment of output OLP is possible between 40 ~ 110% of rated output								
	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/I	P-FG:2KVAC O/P-	-FG:0.5KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P	-FG:100M Ohms / 5	00VDC / 25°C / 70% F	RH					
(Note 4)	EMC EMISSION	Compliance to EN55								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A								
	MTBF	120.8Khrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	250*127*41mm (L*W*H)								
OTTILINO		1.64Kq; 6pcs/10.8Kq/1.1CUFT								
	1 All parameters NOT special	0, 1	,	input_rated load and	d 25°C of ambient ten	nperature				
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid     EMC directives. For guidan     (as available on http://www.	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  to tolerance, line regulation and load regulation.  dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets note on how to perform these EMC tests, please refer to "EMI testing of component power supplies."  v.meanwell.com)								

- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.

  6. The power supply unit will have no output if the shorting connector is not assembled. It contains three shorting wires: one is from on/off(pin13) to 12V-AUX(pin14), two is from PC(pin7) to PO(pin8) and the other is from PV(pin5) to PS(pin6). Please refter to function manual for details.

  7. Please consult MEAN WELL for applications of more units connecting in parallel.



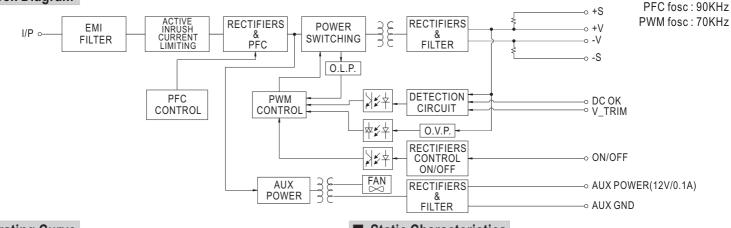


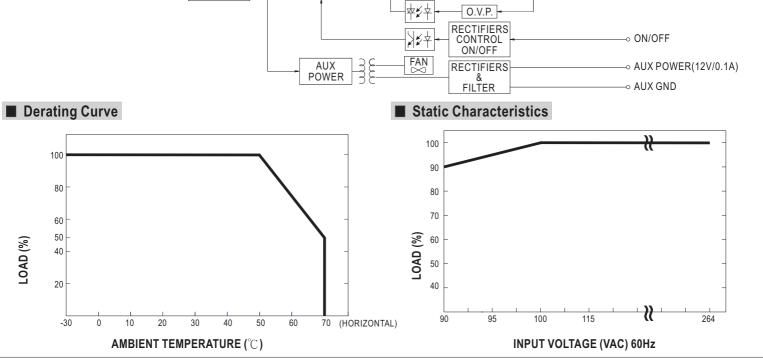
Pin No. Assignment

FILLING. Assignment					
Pin No.	Assignment				
1	AC/N				
2	AC/L				
3	FG ±				

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	+S	6	PS	12	G-AUX		
2	+VS	7	PC	13	ON/OFF	LIDO DE44 44DO	UDC DE44 **CC
3	-S	8	PO	14	12V-AUX	HRS DF11-14DS or equivalent	HRS DF11-**SC or equivalent
4	-VS	9	DC-OK			0.0400	0.0400
5	DV	10 11	CND			]	









# **■** Function Description of CN50

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
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
5	PV	Connect to external DC voltage source for output voltage triming, referenced to pin 10,11 (GND). Output voltage can be trimmed between $40 \sim 110\%$ 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 OLP triming, referenced output OLP 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 OLP 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, $10.8 \sim 13.2 \text{V}$ , referenced to pin $12 \text{(G-AUX)}$ . The maximum load current is $0.1 \text{A}$ . This output is not controlled by the "remote ON/OFF control".

## **■** Function Manual

## 1."Remote ON/OFF" and "Output voltage trim" and "Output OLP trim" functions are not used.

The power supply unit will have no output if the shorting connector (accessory comes along with the PSU) is not assembled. It contains three shorting wires: one is from ON/OFF (pin13) to 12V-AUX (pin14), two is from PV(pin5) to PS (pin6) and the other is from PC (pin7) to PO (pin8).

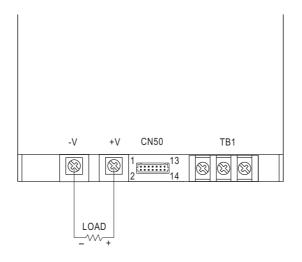
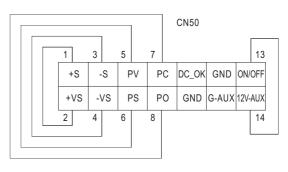


Fig 1.1



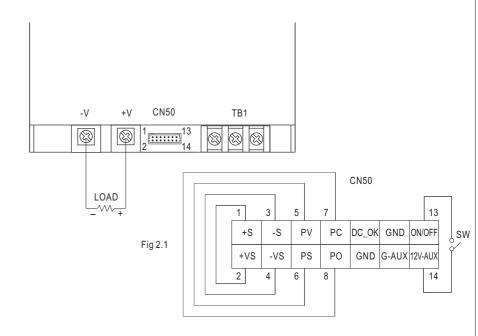
(Shorting connector)



#### 2.Remote ON/OFF

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

Between ON/OFF(pin13) and 12V-AUX(pin14)	Output Status
SW ON (Short)	ON
SW OFF (Open)	OFF



# 3.DC\_OK signal

"DC\_OK" is an open collector signal.

It indicates the output status of the PSU. It can operate in two ways: One is sinking current from external TTL signal; the other is sending out a TTL voltage signal.

#### 3-1 Sink current:

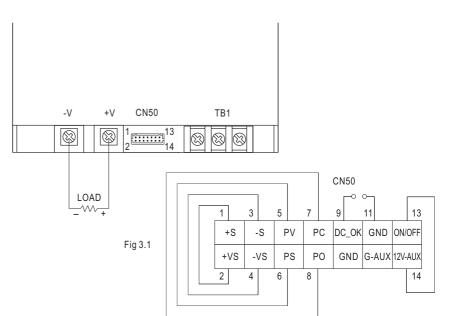
The maximum sink current is 10mA and the maximum external voltage is 5.6V.

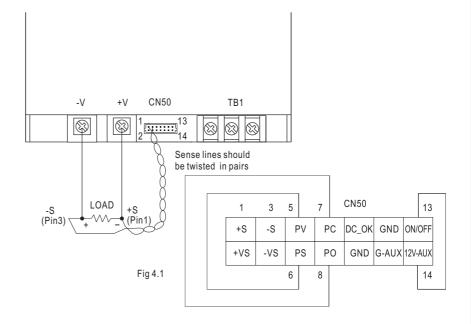
## 3-2 TTL voltage signal:

Between DC- OK(pin9) and GND(pin10&11)	Output Status	
0 ~ 1V	ON	
3.3 ~ 5.6V	OFF	

# 4.Remote Sense

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

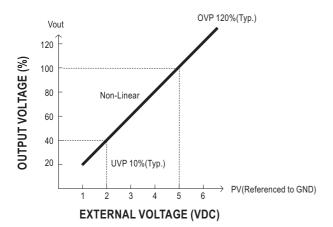




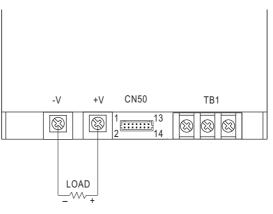


#### 5. Output Voltage TRIM

Output voltage of RSP-750 can be trimmed between 40% ~ 110% of its rated value by the following methods : (1)Using external voltage source between "PV"(pin5) and "GND"(pin10,11) that is shown in Fig5.1



Note: External voltage<0.5V Vo may be the UVP need to restart.



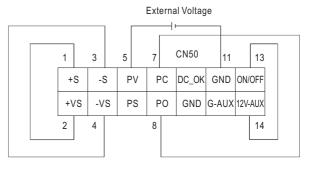
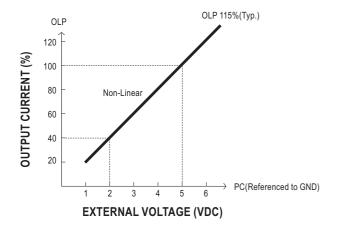


Fig 5.1

### 6.Output OLP TRIM

Output OLP of RSP-750 can be trimmed between  $40\% \sim 110\%$  of its rated value by the following methods : (1)Using external voltage source between "PC"(pin7) and "GND"(pin10,11) that is shown in Fig6.1



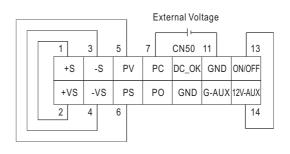


Fig 6.1