



Features :

• AC input 180 ~ 264VAC

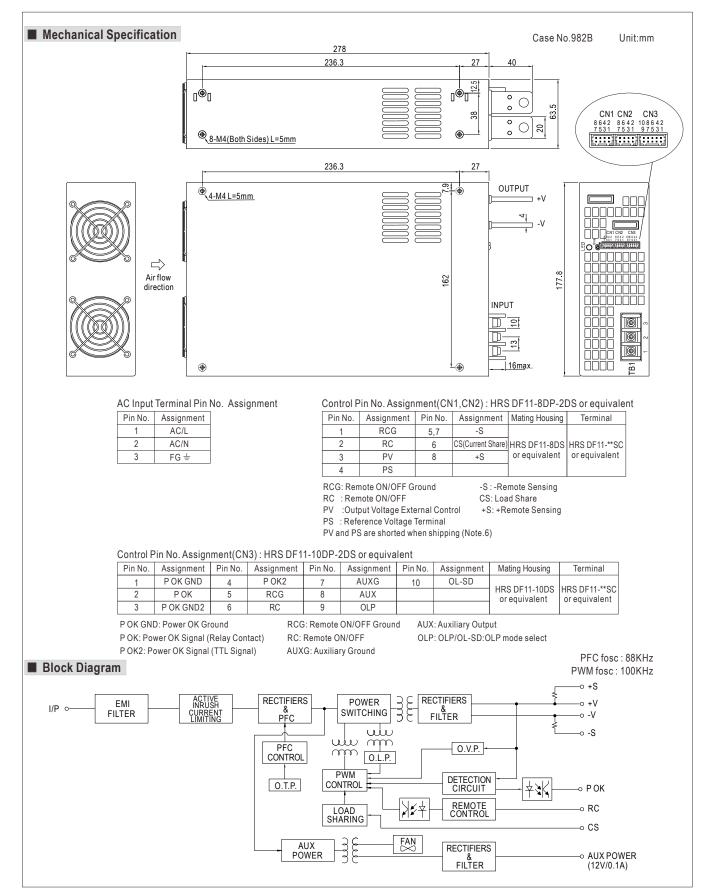
- AC input active surge current limiting
- High efficiency up to 91.5%
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
 / Fan alarm
- Forced air cooling by built-in DC with fan speed control function
- Output voltage can be trimmed between 20~110% of the rated output voltage
- High power density 15.6W/inch³
- Current sharing up to 3 units
- Alarm signal output (relay contact and TTL signal)
- * Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function
- 5 years warranty



SPECIFICATION

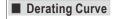
MODEL		RSP-3000-12	RSP-3000-24	RSP-3000-48		
	DC VOLTAGE	12V	24V	48V		
OUTPUT	RATED CURRENT	200A	125A	62.5A		
	CURRENT RANGE	0~200A	0 ~ 125A	0~62.5A		
	RATED POWER	2400W	3000W	3000W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE	10.8 ~ 13.2V	22~28V	43 ~ 56V		
	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 80ms at full load				
	HOLD UP TIME (Typ.)	10ms at full load				
	VOLTAGE RANGE	180 ~ 264VAC 254 ~ 370VDC				
	FREQUENCY RANGE	180 ~ 264 VAC 254 ~ 370 VDC 47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC at full load	90%	04 59/		
INPUT	EFFICIENCY (Typ.)	87.5%	90%	91.5%		
	AC CURRENT (Typ.)	20A/180VAC 16A/230VAC				
	INRUSH CURRENT (Typ.)	60A/230VAC				
	LEAKAGE CURRENT	<2.0mA/240VAC				
	OVERLOAD	100 ~ 112% rated output power				
				vith delay shutdown after 5 seconds, re-power on to reco		
PROTECTION	OVER VOLTAGE	13.8 ~ 16.8V	28.8 ~ 33.6V	57.6 ~ 67.2V		
		Protection type : Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down				
	AUXILIARY POWER(AUX)	12V@0.1A(Only for Remote ON/OFF cor	itrol)			
	REMOTE ON/OFF CONTROL	Please see the Function Manual				
FUNCTION	ALARM SIGNAL OUTPUT	Please see the Function Manual				
	OUTPUT VOLTAGE TRIM Note.5		4.8 ~ 28V	9.6 ~ 56V		
	CURRENT SHARING	Please see the Function Manual				
	WORKING TEMP.	-20 ~ +70 $^\circ \rm C$ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
INVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY &	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Conduction Class B, Radiation Class A; EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A				
OTHERS	MTBF	104.5K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION	278*177.8*63.5mm (L*W*H)				
	PACKING	4Kg; 4pcs/16Kg/1.89CUFT				
NOTE	 Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www Can't use the PWM signal to 	III mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 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 ce on how to perform these EMC tests, please refer to "EMI testing of component power supplies." .rmeanwell.com)				



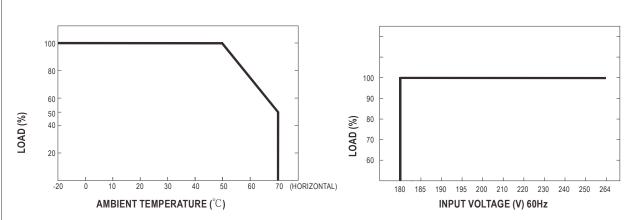


File Name:RSP-3000-SPEC 2014-11-20





Static Characteristics



Function Manual

1.Remote ON/OFF

(1)Remote ON/OFF control becomes available by applying voltage in CN1 & CN2 & CN3. (2)Table 1.1 shows the specification of Remote ON/OFF function.

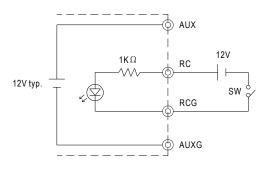
(3)Fig.1.2 shows the example to connect Remote ON/OFF control function.

Table 1.1 Specification of Remote ON/OFF

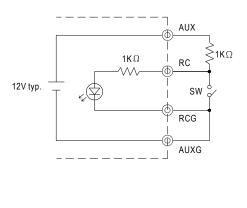
	Method	Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)
SW Logic OL	itput on	SW Open	SW Open	SW Close
OL OL	itput off	SW Close	SW Close	SW Open

Fig.1.2 Examples of connecting remote ON/OFF

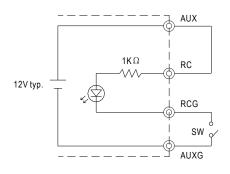
(A)Using external voltage source



(C)Using internal 12V auxiliary output



(B)Using internal 12V auxiliary output



File Name:RSP-3000-SPEC 2014-11-20



2.Alarm Signal Output

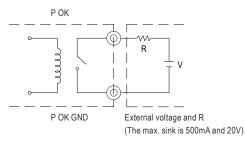
(1)Alarm signal is sent out through "P OK" & "P OK GND" and P OK2 & P OK GND2 pins.

(2)An external voltage source is required for this function.

(3)Table 2.1 explain the alarm function built-in the power supply.

<u></u>							
Function	Description	Output of alarm(POK, Relay Contact)	Output of alarm(P OK2, TTL Signal)				
POK	The signal is "Low" when the power supply is above 80% of the rated output voltage-Power OK	Low (0.5V max at 500mA)	Low (0.5V max at 10mA)				
	The signal turns to be "High" when the power supply is under 80% of the rated output voltage-Power Fail	High or open (External applied voltage, 500mA max.)	High or open (External applied voltage, 10mA max.)				

Table 2.1 Explanation of alarm



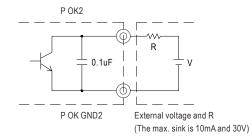


Fig. 2.2 Internal circuit of P OK (Relay, total is 10W)

Fig. 2.3 Internal circuit of P OK2 (Open collector method)

3.Output Voltage TRIM

(1)Connecting an external DC source between PV & -S on CN1 or CN2, and +S & +V, -S & -V also need to be connected that is shown in Fig. 3.1.
(2)Adjustment of output voltage is possible between 20~110%(Typ.) of the rated output which is shown in Fig. 3.2. Reducing output current is required when the output voltage is trimmed up.

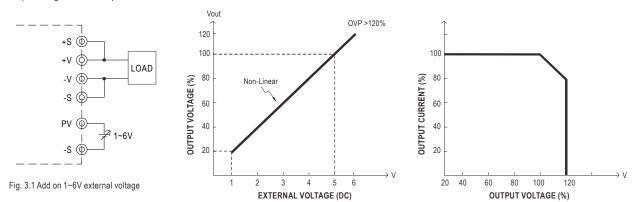
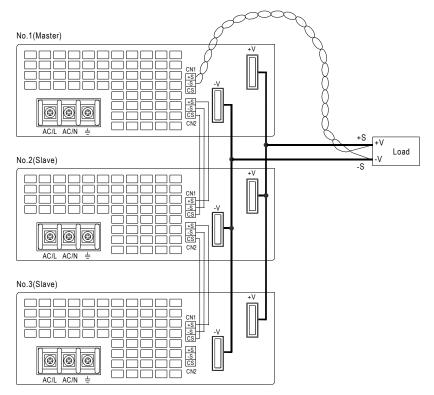


Fig. 3.2 Output voltage trimming



4.Current Sharing

- (1)Parallel operation is available by connecting the units shown as below
- (+S,-S and CS are connected mutually in parallel):
- (2) The voltage difference among each output should be minimized that less than 0.2V is required.
- (3)The total output current must not exceed the value determined by the following equation.
- (Output current at parallel operation)=(The rated current per unit) \times (Number of unit) \times 0.9
- (4) In parallel operation 3 units is the maximum, please consult the manufacturer for other applications.
- (5) When remote sensing is used in parallel operation, the sensing wire must be connected only to the master unit.
- (6) Wires of remote sensing should be kept at least 10 cm from input wires.

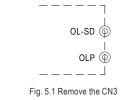


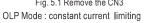
(7) When in parallel operation, the minimum output load should be greater than 3% of total output load. (Min. Load >3% rated current per unit×number of unit)

(8) Under parallel operation, the "output voltage trim" function is not available.

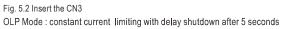
5.Select O.L.P mode

(1)Remove the shorting connector on CN3 that is shown in Fig 5.1, the O.L.P. mode will be "continuous constant current limiting".
 (2)Insert the shorting connector on CN3 that is shown in Fig 5.2, the O.L.P. mode will be "constant current limiting with delay shutdown after 5 seconds, re-power on to recover.







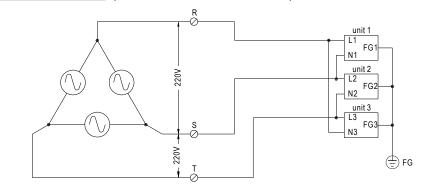




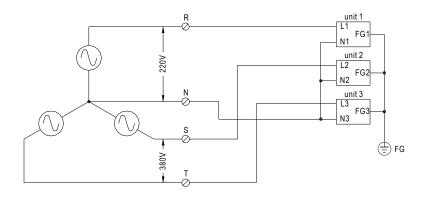
6.Three Phase Connect

Users can exploit three units of RSP-3000(unit 1, unit 2, unit 3) to work with 3 ψ power system. Please refer to following diagrams for configuration.

■ FIG. A: 3 ψ 3W 220VAC SYSTEM (STANDARD MODEL FOR STOCK)



■ FIG. B: 3 \u03c6 4W 220/380VAC SYSTEM



■ FIG. C: 3 *\psi* 4W 190/110VAC SYSTEM

