





### Features:

- Universal AC input/Full range
- ZVS new technology
- · AC input active surge current limiting
- High efficiency up to 91%
- Built-in active PFC function, PF>0.95
- Protections:Short circuit, overload, over voltage, over temperature
- Forced air cooling by built-in DC ball bearing fan
- Output voltage can be trimmed between 70~100% of the rated output voltage

Parallel P SI A BART CRCE

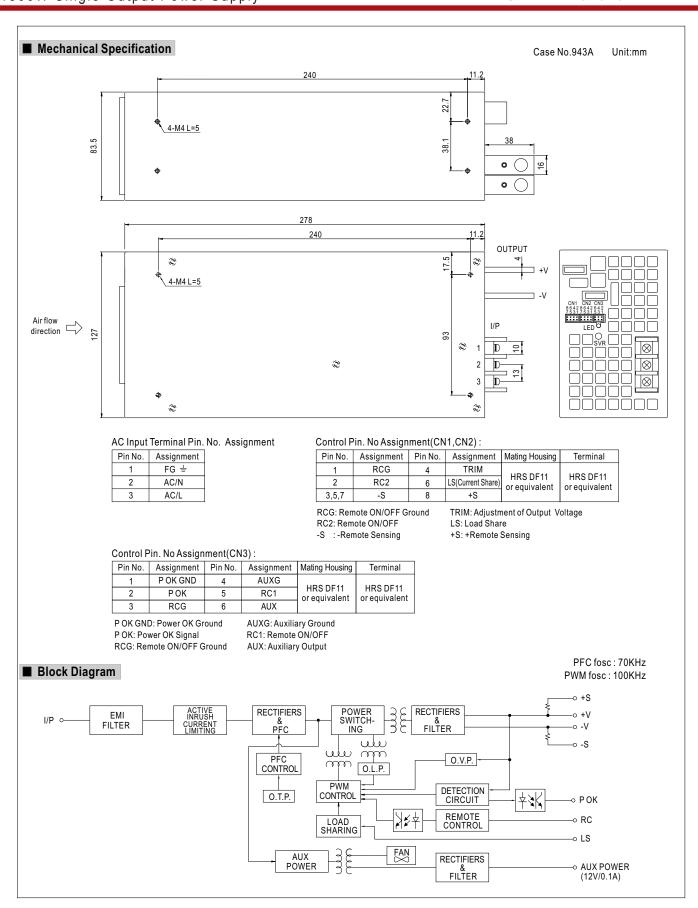
- High power density 8.3W/inch<sup>3</sup>
- Current sharing up to 6000W(3+1)
- Alarm signal output
- Built-in 12V/0.1A auxiliary output for remote control
- Built-in remote ON-OFF control
- Built-in remote sense function

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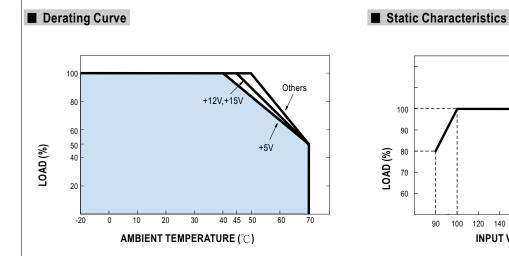
MODEL		RSP-1500-5	RSP-1500-12	RSP-1500-15	RSP-1500-24	RSP-1500-27	RSP-1500-48	
ОИТРИТ	DC VOLTAGE	5V	12V	15V	24V	27V	48V	
	RATED CURRENT	240A	125A	100A	63A	56A	32A	
	CURRENT RANGE	0 ~ 240A	0 ~ 125A	0 ~ 100A	0 ~ 63A	0 ~ 56A	0 ~ 32A	
	RATED POWER	1200W	1500W	1500W	1512W	1512W	1536W	
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 56V	
	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	1500ms, 100ms at full load					_	
	HOLD TIME (Typ.)	10ms at full load		14ms at full load 16ms at full load				
	VOLTAGE RANGE	90 ~ 264VAC	127 ~ 370VDC					
	FREQUENCY RANGE	47~63Hz						
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load						
INPUT	EFFICIENCY (Typ.)	80%	87%	87%	90%	90%	91%	
	AC CURRENT (Typ.)	17A/115VAC 8	A/230VAC					
	INRUSH CURRENT (Typ.)	30A/115VAC 60A/230VAC						
	LEAKAGE CURRENT	<2.0mA/240VAC						
		105 ~135% rated output power						
	OVER LOAD Note.5							
		5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V	
PROTECTION	OVER VOLTAGE			re-power on to recove				
		95°C±5°C (TSW2) Detect on heatsink of power transistor						
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down						
	AUXILIARY POWER(AUX)	12A@0.1A(Only for Remote ON/OFF control)						
	REMOTE ON/OFF CONTROL	Please see the Function Manual						
	ALARM SIGNAL OUTPUT	Please see the Function Manual						
	OUTPUT VOLTAGE TRIM	Please see the Fun	ction Manual					
	CURRENT SHARING	Please see the Fun	ction Manual					
	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)						
ŀ	WORKING HUMIDITY	20~90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.05%/°C (0~50°C)						
- H	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
SAFETY &	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
EMC	EMI CONDUCTION & RADIATION							
(Note 4)	HARMONIC CURRENT	Compliance to EN61000-3-2,-3						
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A						
OTHERS	MTBF	62.6K hrs min. N	11L-HDBK-217F (25°	C)	· · · · · · · · · · · · · · · · · · ·			
	DIMENSION	278*127*83.5mm (L*W*H)						
	PACKING	2.6Kg; 6pcs/16.6Kg/1.75CUFT						
NOTE	All parameters NOT specia     Ripple & noise are measure     Tolerance: includes set up     The power supply is consid     EMC directives.	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 under low input voltages. Please check the derating curve for more details.						







1500W Single Output Power Supply



# Ta=25°C Ta=25°C 70 90 90 100 100 100 100 120 140 150 160 180 200 220 240 264 INPUT VOLTAGE (V) 60Hz

# **■** Function Manual

### 1.Remote ON/OFF

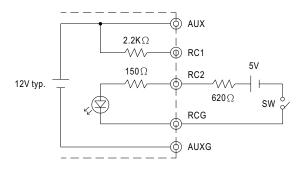
- (1)Remote ON/OFF control becomes available by applying voltage in CN1 & CN2 & CN3
- (2) Table 1.1 shows the specification of Remote ON/OFF function
- (3)Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

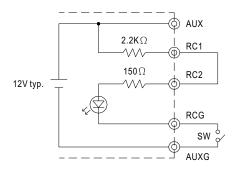
Connection Method		Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)	
SW Logic	Output on	SW Open	SW Open	SW Close	
3W Logic	Output off	SW Close	SW Close	SW Open	

Fig.1.2 Examples of connecting remote ON/OFF

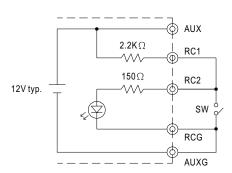
# (A)Using external voltage source



### (B)Using internal 12V auxiliary output



# (C)Using internal 12V auxiliary output





# 1500W Single Output Power Supply

# 2.Alarm Signal Output

- (1)Alarm signal is sent out through "P OK" & "P OK GND" pins
- (2)An external voltage source is required for this function. The maximum applied voltage is 50V and the maximum sink current is 10mA
- (3) Table 2.1 explain the alarm function built-in the power supply

Function	Description	Output of alarm(P OK)	
POK	The signal is "Low" when the power supply is above 65% of the rated output voltage-Power OK	Low (0.5V max at 10mA)	
	The signal turns to be "High" when the power supply is under 65% of the rated output voltage-Power Fail	High or open (External applied voltage 10mA max.)	

Table 2.1 Explanation of alarm

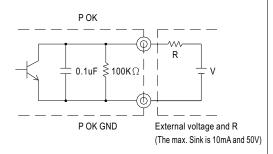


Fig. 2.2 Internal circuit of P OK (Open collector method)

### 3.Output Voltage TRIM

- (1)Adjustment of output voltage is possible between 70~100%(Typ.) of the rated output which is shown in Fig. 3.1
- (2)Connecting a resistor externally between TRIM and-S on CN1 or CN2 that is shown in Fig. 3.2.

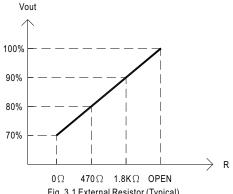


Fig. 3.1 External Resistor (Typical)

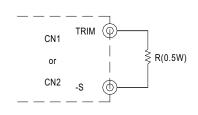
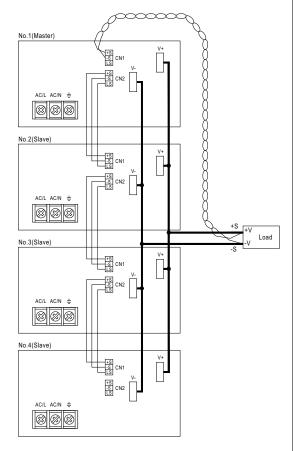


Fig. 3.2 Output voltage trimming

### 4. Current Sharing

- (1)Parallel operation is available by connecting the units shown as below (+S,-S and LS are connected mutually in parallel):
- (2) The voltage difference among each output should be minimized that less than ±2% 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) x (Number of unit) x 0.9
- (4) In parallel operation 4 units is the maximum, please consult the manufacture for other applications
- (5) When remote sensing is used in parallel operation, the sensing wire must be connected only to the master unit



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