



- 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
- High power density 8.3W/inch³
- 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
- 3 years warranty



DC VOLTAGE5VRATED CURRENT240ACURRENT RANGE0~24RATED POWER1200VRIPPLE & NOISE (max.) Note.2150mVOLTAGE ADJ. RANGE4.5~5VOLTAGE TOLERANCE Note.3±2.0%LINE REGULATION±0.5%LOAD REGULATION±2.0%SETUP, RISE TIME1500mHOLD UP TIME (Typ.)10msVOLTAGE RANGE90~2FREQUENCY RANGE47~63POWER FACTOR (Typ.)0.95/2EFFICIENCY (Typ.)80%AC CURRENT (Typ.)17A/1INPUTEFFICIENCY (Typ.)30A/1LEAKAGE CURRENT<2.0mPROTECTIONOVER VOLTAGEOVER VOLTAGE5.75~Protect0VER VOLTAGEOVER VOLTAGE95°C ±PROTECTIONALARM SIGNAL OUTPUTPROTECTIONALARM SIGNAL OUTPUTPROTECTIONALARM SIGNAL OUTPUTPROTECTIONALARM SIGNAL OUTPUTPROTECTIONSTORAGE TEMP.ALARM SIGNAL OUTPUTPleaseOUTPUT VOLTAGE TRIMPleaseOUTPUT VOLTAGE TRIMPleaseOUTPUT VOLTAGE TRIM10~5SAFETY &SAFETY STANDARDSULGOSWITHSTAND VOLTAGEI/P-O/ISOLATION RESISTANCEI/P-O/ISOLATION RESISTANCEI/P-O/ISOLATION RESISTANCEI/P-O/ISOLATION RESISTANCEI/P-O/ISOLATION RESISTANCEI/P-O/ISOLATION RESISTANCEI/P-O/ISOLATION RESISTANCEI/P-O/ISOL	P-1500-5 RSP-1500-1	2 RSP-1500-15	RSP-1500-24	c 7 US RSP-1500-27	RSP-1500-48	
RATED CURRENT240ACURRENT RANGE0 ~ 24RATED POWER1200VRIPPLE & NOISE (max.) Note.2150mVOLTAGE ADJ. RANGE4.5 ~ 5VOLTAGE TOLERANCE Note.3±2.0%LINE REGULATION±0.5%LOAD REGULATION±2.0%SETUP, RISE TIME1500nHOLD UP TIME (Typ.)10msVOLTAGE RANGE90 ~ 2FREQUENCY RANGE47~63POWER FACTOR (Typ.)0.95/2FREQUENCY RANGE47~63POWER FACTOR (Typ.)100%AC CURRENT (Typ.)17A/1INRUSH CURRENT (Typ.)30A/1LEAKAGE CURRENT (Typ.)30A/1LEAKAGE CURRENT (Typ.)30A/1LEAKAGE CURRENT (Typ.)5.75 ~Protect0VER VOLTAGEOVER VOLTAGE95°C ±Protect95°C ±OVER TEMPERATURE95°C ±Protect0VER TEMPERATUREAUXILIARY POWER(AUX)12V@REMOTE ON/OFF CONTROLPleaseOUTPUT VOLTAGE TRIMPleaseOUTPUT VOLTAGE TRIMPleaseOUTPUT VOLTAGE TRIMPleaseOUTPUT VOLTAGE TRIMPleaseWORKING TEMP20 ~WORKING TEMP20 ~<	12V	15V	24V	27V	48V	
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INRUSH CURRENT (Typ.) 30A/1 LEAKAGE CURRENT <2.0m		87%	90%	90%	91%	
LEAKAGE CURRENT <2.0m						
OVERLOAD Note.5 105 ~ PROTECTION OVER VOLTAGE 5.75 ~ OVER VOLTAGE 5.75 ~ OVER VOLTAGE 95 °C ± OVER TEMPERATURE 95 °C ± AUXILIARY POWER(AUX) 12V@ REMOTE ON/OFF CONTROL Please OUTPUT VOLTAGE TRIM Please OUTPUT VOLTAGE TRIM Please CURRENT SHARING Please WORKING TEMP. -20 ~ WORKING TEMP. -20 ~ WORKING HUMIDITY 20~90 NVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ TEMP. COEFFICIENT ±0.05 VIBRATION 10 ~ 5 SAFETY & SAFETY STANDARDS UL603 SAFETY & ISOLATION RESISTANCE I/P-O/ EMC IMMUNITY Comp Comp EMC IMMUNITY Comp EMC EMISSION Comp DTHERS DIMENSION 278*1 PACKING 3.0Kg 3.0Kg IOTE 1. All parameters NOT specially men 2	30A/115VAC 60A/230VAC					
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AUXILIARY POWER(AUX) 12V@ REMOTE ON/OFF CONTROL Please OUTPUT VOLTAGE TRIM Please OUTPUT VOLTAGE TRIM Please CURRENT SHARING Please WORKING TEMP20 ~- WORKING HUMIDITY 20~90 STORAGE TEMP., HUMIDITY -40 ~- TEMP. COEFFICIENT ±0.05 VIBRATION 10 ~5 SAFETY STANDARDS UL609 WITHSTAND VOLTAGE I/P-O/ ISOLATION RESISTANCE I/P-O/ EMC EMISSION Comp EMC IMMUNITY Comp EMC IMMUNITY Comp MTBF 62.6K DIMENSION 278*1 PACKING 3.0Kg 1. All parameters NOT specially men 2. Ripple & noise are measured at 22 3. Tolerance : includes set up tolerar	$95^{\circ}C \pm 5^{\circ}C$ (TSW2) detect on heatsink of power transistor					
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ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ · · · · · · · · · · · · · · · · · ·	~+70 $^\circ\!\mathrm{C}$ (Refer to "Derating C	irve")				
TEMP. COEFFICIENT ±0.05 VIBRATION 10 ~ 5 SAFETY & SAFETY STANDARDS UL603 SAFETY & WITHSTAND VOLTAGE I/P-O/ EMC Note 4) ISOLATION RESISTANCE I/P-O/ EMC EMISSION Comp EMC IMMUNITY Comp EMC IMMUNITY Comp DIMENSION 278*1 PACKING 3.0Kg 1. All parameters NOT specially men 2. Ripple & noise are measured at 21 3. Tolerance : includes set up tolerance	20~90% RH non-condensing					
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SAFETY & SAFETY STANDARDS UL609 WITHSTAND VOLTAGE I/P-0/ ISOLATION RESISTANCE I/P-0/ EMC EMISSION Comp EMC IMMUNITY Comp EMC IMMUNITY Comp DIMENSION 278*1 PACKING 3.0Kg NOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 22 3. Tolerance : includes set up tolerar	05%/℃ (0~50℃)					
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ISOLATION RESISTANCE I/P-O/ EMC EMC EMISSION Comp EMC IMMUNITY Comp DTHERS MTBF 62.6K DIMENSION 278*1 PACKING 3.0Kg 1. All parameters NOT specially men 2. Ripple & noise are measured at 2/ 3. Tolerance : includes set up tolerar	60950-1, TUV EN60950-1 appr	oved				
ISOLATION RESISTANCE I/P-O/ Note 4) EMC EMISSION Comp EMC EMISSION Comp EMC IMMUNITY Comp DTHERS MTBF 62.6K DIMENSION 278*1 PACKING 3.0Kg NOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 2' 3. Tolerance : includes set up tolerar	O/P:3KVAC I/P-FG:2KVAC	O/P-FG:0.5KVAC				
EMC EMISSION Comp EMC IMMUNITY Comp MTBF 62.6K DIMENSION 278*1 PACKING 3.0Kg NOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 2' 3. Tolerance : includes set up tolerar	O/P, I/P-FG, O/P-FG:100M Oh	ms / 500VDC / 25°C / 70% R	RH			
MTBF 62.6K DIMENSION 278*1 PACKING 3.0Kg NOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 2/ 3. Tolerance : includes set up tolerar	mpliance to EN55022 (CISPR2	2), EN61000-3-2,-3				
DIMENSION 278*1 PACKING 3.0Kg NOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 2t 3. Tolerance : includes set up tolerar	mpliance to EN61000-4-2,3,4,5	,6,8,11, EN55024, light indu	ustry level, criteria A			
PACKING 3.0Kg IOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 2 3. Tolerance : includes set up tolerar	6K hrs min. MIL-HDBK-217F	(25°C)				
IOTE 1. All parameters NOT specially men 2. Ripple & noise are measured at 20 3. Tolerance : includes set up tolerar	278*127*83.5mm (L*W*H)					
2. Ripple & noise are measured at 2 3. Tolerance : includes set up tolerar	Kg; 4pcs/13Kg/1.19CUFT					
EMC directives. For guidance on h (as available on http://www.meanv 5. Derating may be needed under low	t 20MHz of bandwidth by usin rance, line regulation and loac I a component which will be in n how to perform these EMC anwell.com)	g a 12" twisted pair-wire te regulation. stalled into a final equipme tests, please refer to "EMI	erminated with a 0.1uf ent. The final equipme testing of component	& 47uf parallel capace		





File Name: RSP-1500-SPEC 2012-06-04



Derating Curve

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

Connec	tion Method	Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)
SW Logic	Output on	SW Open	SW Open	SW Close
	Output 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





RSP-1500 series

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

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Function	Description	Output of alarm(P OK)
P OK	The signal is "Low" when the power supply is above 65% of the rated output voltage-Power OK	Low (0.5V max at 10mA)
POK	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

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.
(3)+S & +V, -S & -V also need to be connected on CN1 or CN2.



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







- (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 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) 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

