



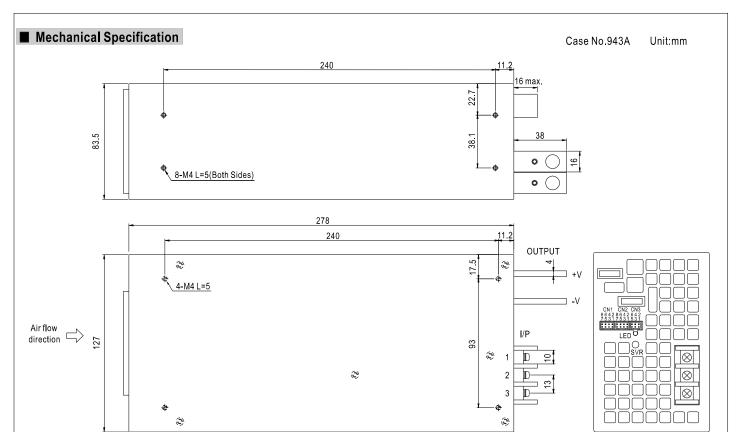
# ■ Features :

- 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
- $\bullet$  Output voltage can be trimmed between 70~100% of the rated output voltage
- 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
- 3 years warranty

(	Parallel		•	Δ	BAUART GEPRUFT	_	, D		_
Ų	, Parallel	$\sim$	A iie	Finance	THE	L.	, D	. (	t

R C R	DC VOLTAGE	RSP-1500-5	RSP-1500-12	RSP-1500-15	RSP-1500-24	RSP-1500-27	RSP-1500-48	
C R R		5V	12V	15V	24V	27V	48V	
R	RATED CURRENT	240A	125A	100A	63A	56A	32A	
R	CURRENT RANGE	0 ~ 240A	0 ~ 125A	0 ~ 100A	0 ~ 63A	0 ~ 56A	0 ~ 32A	
_	RATED POWER	1200W	1500W	1500W	1512W	1512W	1536W	
OUTPUT V	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	
	/OLTAGE ADJ. RANGE	4.5 ~ 5.5V	10 ~ 13.5V	13.5 ~ 16.5V	20 ~ 26.4V	24 ~ 30V	43 ~ 56V	
V	OLTAGE TOLERANCE Note,3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
L	INE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
L	LOAD REGULATION	±2.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
S	SETUP, RISE TIME	1500ms, 100ms at full load						
н	HOLD UP TIME (Typ.)	10ms at full load		14ms at full load		16ms at full load		
V	/OLTAGE RANGE	90 ~ 264VAC	127 ~ 370VDC					
F	REQUENCY RANGE	47~63Hz						
P	POWER FACTOR (Typ.)	0.95/230VAC	0.98/115VAC at full le	oad				
NPUT E	EFFICIENCY (Typ.)	80%	87%	87%	90%	90%	91%	
Α	AC CURRENT (Typ.)	17A/115VAC 8	3A/230VAC					
II	NRUSH CURRENT (Typ.)	30A/115VAC 60A/230VAC						
L	EAKAGE CURRENT	<2.0mA / 240VAC						
	OVERLOAD Note.5	105 ~135% rated output power						
C		Protection type : Co	nstant current limiting	unit will shut down o/p	voltage after 5sec. Re-	power on to recover		
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.8V	17 ~ 20.5V	27.6 ~ 32.4V	31 ~ 36.5V	57.6 ~ 67.2V	
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover						
	OVED TEMPERATURE	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						
Α	AUXILIARY POWER(AUX)	12V@0.1A(Only for Remote ON/OFF control)						
R	REMOTE ON/OFF CONTROL	Please see the Function Manual						
UNCTION	ALARM SIGNAL OUTPUT	Please see the Fu	nction Manual					
C	OUTPUT VOLTAGE TRIM	Please see the Fu	nction Manual					
C	CURRENT SHARING	Please see the Fu	nction Manual					
V	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)						
V	WORKING HUMIDITY	20~90% RH non-condensing						
ENVIRONMENT S	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ !	95% RH					





AC Input Terminal Pin No. Assignment

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

# Control Pin No. Assignment(CN1,CN2): HRS DF11-8DP-2DS or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	RCG	4	TRIM	UD0 DE44 0D0	UD0 DE44 **00
2	RC2	6	LS(Current Share)	or equivalent	HRS DF11-**SC or equivalent
3,5,7	-S	8	+S	orequivalent	or equivalent

RCG: Remote ON/OFF Ground

RC2: Remote ON/OFF

TRIM: Adjustment of Output Voltage

LS: Load Share

-S :-Remote Sensing +S:+Remote Sensing

## Control Pin No. Assignment(CN3): HRS DF11-6DP-2DS or equivalent

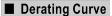
Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal	
1	P OK GND	4	AUXG	LIDO DE44 CDO	LIDO DE44 **CO	
2	POK	5	RC1	HRS DF11-6DS	or equivalent	
3	RCG	6	AUX	or equivalent	orequivalent	

P OK GND: Power OK Ground P OK: Power OK Signal RCG: Remote ON/OFF Ground AUXG: Auxiliary Ground RC1: Remote ON/OFF AUX: Auxiliary Output

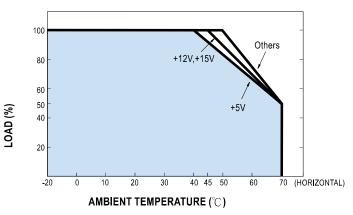
■ Block Diagram

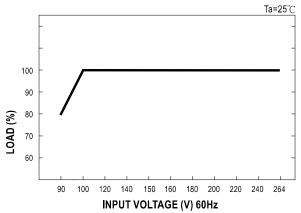
PFC fosc: 70KHz PWM fosc: 100KHz





## ■ 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

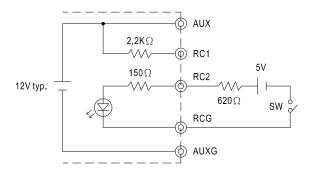
(3)Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

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

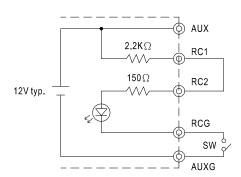
Fig.1.2 Examples of connecting remote ON/OFF

## (A)Using external voltage source



(C)Using internal 12V auxiliary output

## (B)Using internal 12V auxiliary output





#### 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)		
FOR	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

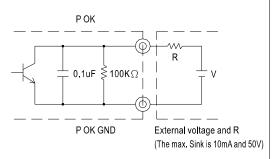


Fig. 2.2 Internal circuit of P OK (Open collector method)

### 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.

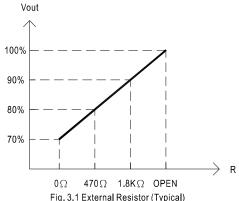


Fig. 3.1 External Resistor (Typical)

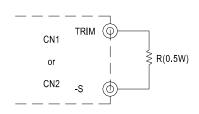


Fig. 3.2 Output voltage trimming

# 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  $\pm 2\%$  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

