



### ■ Features :

- Universal AC input/Full range
- ZVS new technology
- AC input active surge current limiting
- 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
- High power density 8.3W/inch<sup>3</sup>
- Current sharing up to 4500W(2+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



### SPECIFICATION

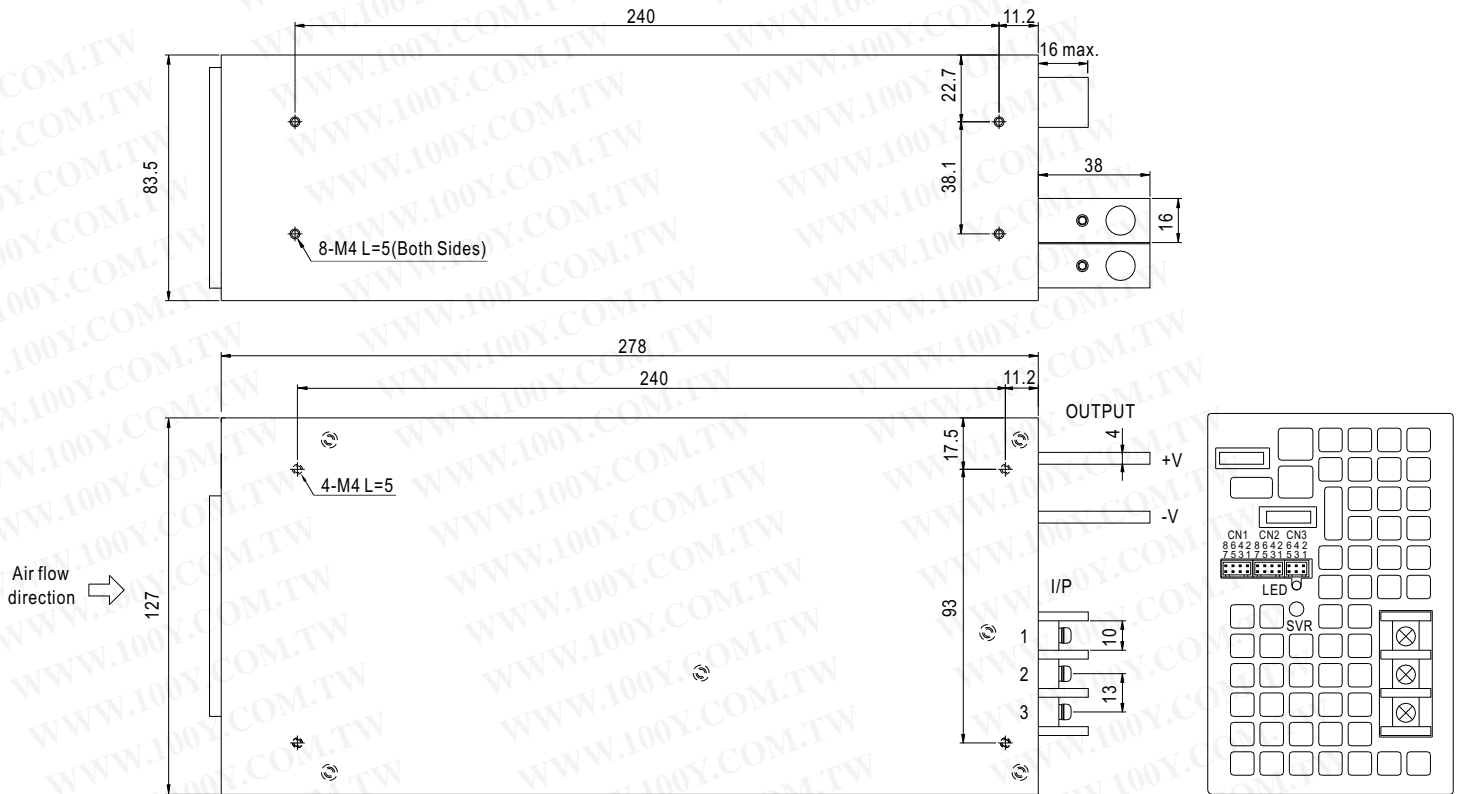
MODEL	SPV-1500-12		SPV-1500-24		SPV-1500-48	
OUTPUT	DC VOLTAGE	12V		24V		48V
	RATED CURRENT	125A		63A		32A
	CURRENT RANGE	0 ~ 125A		0 ~ 63A		0 ~ 32A
	RATED POWER	1500W		1512W		1536W
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p		150mVp-p		200mVp-p
	VOLTAGE ADJ. RANGE	±5% typical adjustment by VR, 20% ~ 120% adjustment by 1~6VDC external control				
	VOLTAGE TOLERANCE <small>Note.3</small>	±1.0%				
	LINE REGULATION	±0.5%				
	LOAD REGULATION	±0.5%				
	SETUP, RISE TIME	1500ms, 100ms at full load				
HOLD UP TIME (Typ.)	10ms at full load		14ms at full load		16ms at full load	
INPUT	VOLTAGE RANGE	90 ~ 264VAC      127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	0.95/230VAC      0.98/115VAC at full load				
	EFFICIENCY (Typ.)	86.5%		90%		90%
	AC CURRENT (Typ.)	17A/115VAC      8A/230VAC				
	INRUSH CURRENT (Typ.)	30A/115VAC      60A/230VAC				
	LEAKAGE CURRENT	<2.0mA / 240VAC				
PROTECTION	OVERLOAD <small>Note.5</small>	105 ~135% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	13.8 ~ 16.8V		30 ~ 34.8V		57.6 ~ 67.2V
	OVER TEMPERATURE	105℃ ±5℃ (TSW2 ) detect on heatsink of power transistor Protection type : Shut down o/p voltage, recovers automatically after temperature goes down				
FUNCTION	AUXILIARY POWER(AUX)	12V@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	2.4 ~ 13.2V		4.8 ~ 28V		9.6 ~ 56V
ENVIRONMENT	WORKING TEMP.	-20 ~ +70℃ (Refer to output load derating curve)				
	WORKING HUMIDITY	20~90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.05%/℃ (0 ~ 50℃)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC <small>(Note 4)</small>	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				
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC				
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22)				
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A				
	MTBF	109K hrs min.    MIL-HDBK-217F (25℃)				
	DIMENSION	278*127*83.5mm (L*W*H)				
	PACKING	2.6Kg; 6pcs/16.6Kg/1.54CUFT				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHZ of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.					

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## Mechanical Specification

Case No.943A Unit:mm



AC Input Terminal Pin No. Assignment

Pin No.	Assignment
1	FG $\perp$
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	5,7	-S	HRS DF11-8DS or equivalent	HRS DF11-**SC or equivalent
2	RC2	6	LS(Current Share)		
3	PV	8	+S		
4	PS				

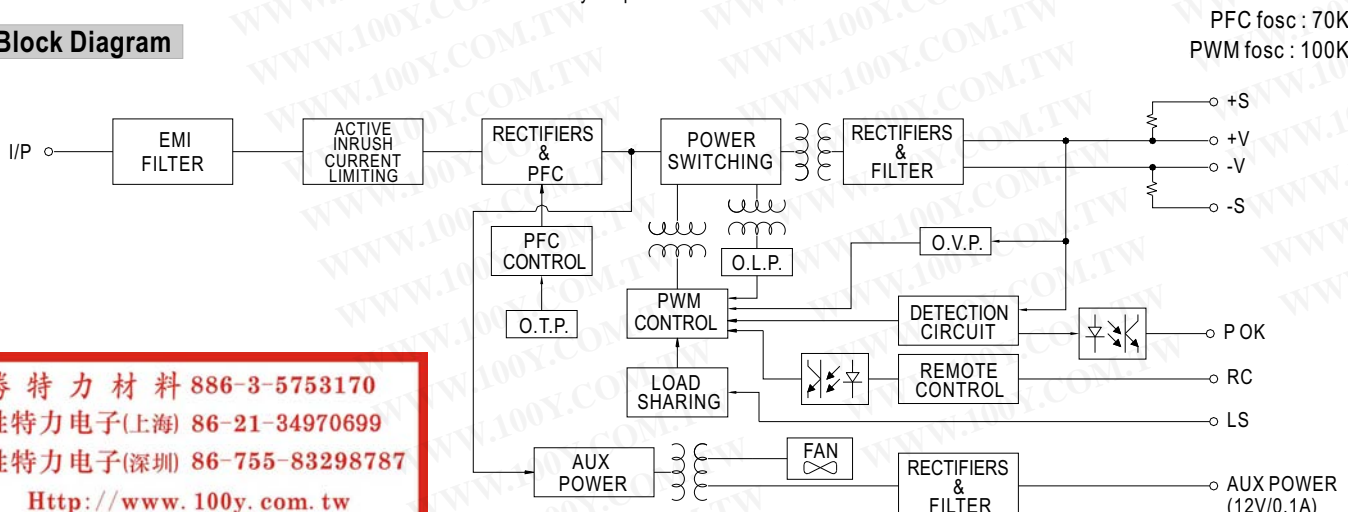
RCG: Remote ON/OFF Ground -S: -Remote Sensing  
 RC2: Remote ON/OFF LS: Load Share  
 PV: Output voltage external control +S: +Remote Sensing  
 PS: Reference voltage terminal, PS and PV are connected when shipping

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	HRS DF11-6DS or equivalent	HRS DF11-**SC or equivalent
2	P OK	5	RC1		
3	RCG	6	AUX		

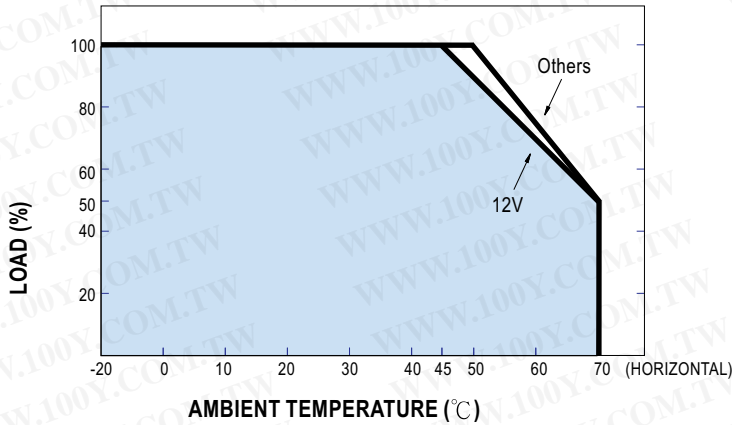
P OK GND: Power OK Ground AUXG: Auxiliary Ground  
 P OK: Power OK Signal RC1: Remote ON/OFF  
 RCG: Remote ON/OFF Ground AUX: Auxiliary Output

## Block Diagram

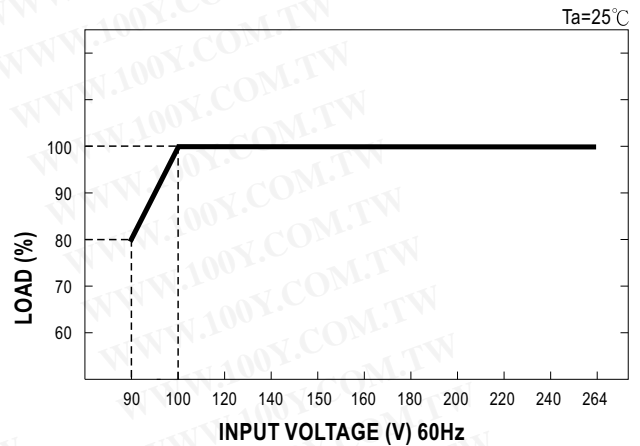


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## Derating Curve



## Static Characteristics



## Function Manual

### 1.Remote ON/OFF

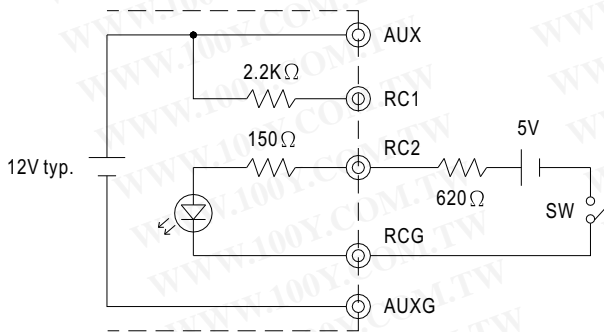
- (1) Remote ON/OFF control becomes available by applying voltage in CN1 & CN2 & CN3
- (2) Table 1.1 shows the specification of Remote ON/OFF function
- (3) Fig.1.2 shows the example to connect Remote ON/OFF control function

Table 1.1 Specification of Remote ON/OFF

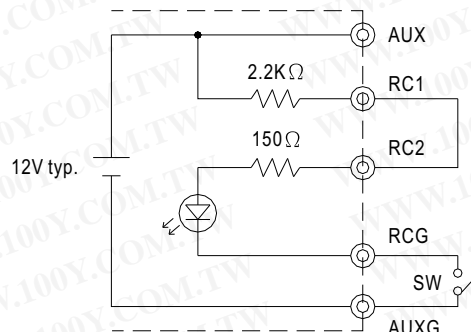
Connection Method		Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)
SW Logic	Output on	SW Open	SW Open	SW Close
	Output off	SW Close	SW Close	SW Open

Fig.1.2 Examples of connecting remote ON/OFF

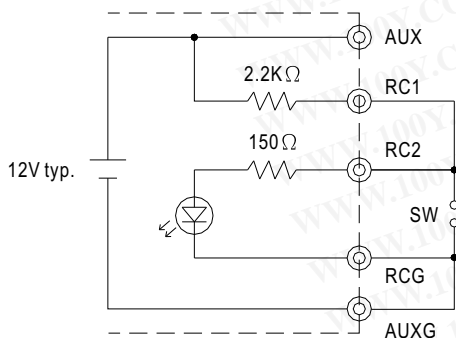
(A) Using external voltage source



(B) Using internal 12V auxiliary output



(C) Using internal 12V auxiliary output



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