



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/inch³
- Output voltage can be trimmed between 20% ~ 110% rated value
- 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







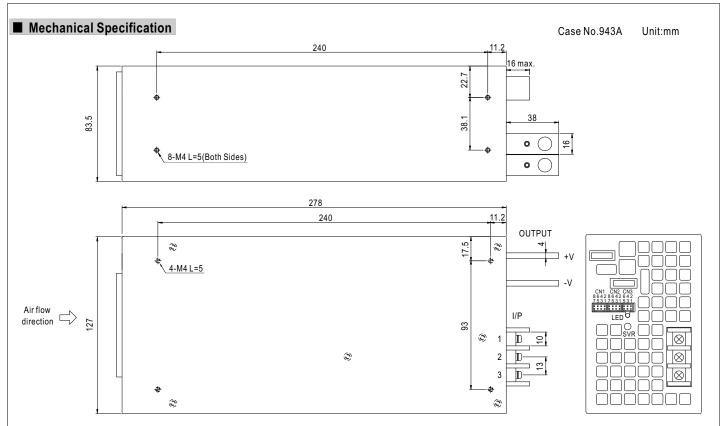


SPECIFICATION

MODEL		SPV-1500-12	SPV-1500-24	SPV-1500-48			
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.) Note.2	150mVp-p	150mVp-p	200mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	25% typical adjustment by VR, 20% ~ 110% (typ.) adjustment by 1~6VDC external control signal					
	VOLTAGE TOLERANCE Note.3						
	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			
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load	I				
INPUT	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					
		105 ~135% rated output power					
	OVERLOAD	Protection type: Constant current limiting, recovers automatically after fault condition is removed					
		13.8 ~ 16.8V	30 ~ 34.8V	57.6 ~ 67.2V			
PROTECTION	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover					
	OVED TEMPEDATURE	105°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)	12V@0.1A(Only for Remote ON/OFF control)					
FUNCTION	REMOTE ON/OFF CONTROL	Please see the Function Manual					
FUNCTION	ALARM SIGNAL OUTPUT	Please see the Function Manual					
	OUTPUT VOLTAGE TRIM	2.4 ~ 13.2V	4.8 ~ 28V	9.6 ~ 56V			
WORKING TEMP.		-20 ~ +70°C (Refer to output load derating curve)					
	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)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each	h along X, Y, Z axes				
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
SAFETY &	WITHSTAND VOLTAGE						
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
(Note 4)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22)					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3					
	EMS IMMUNITY		ENV50204, EN55024, light industry level, co	пепа А			
OTHERS	MTBF	109K hrs min. MIL-HDBK-217F (25℃)					
OTHERS	DIMENSION	278*127*83.5mm (L*W*H)					
	PACKING 3.0Kg; 4pcs/13Kg/1.19CUFT 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			ratura			
NOTE		red 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)
- 5. Derating may be needed under low input voltages. Please check the derating curve for more details.





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	5,7	-S		
	2	RC2	6	LS(Current Share)	HRS DF11-8DS	HRS DF11-**SC
	3	PV	8	+S	or equivalent	or equivalent
Ì	4	PS				

RCG: Remote ON/OFF Ground

-S: -Remote Sensing

RC2: Remote ON/OFF

LS: Load Share

PV: Output voltage external control

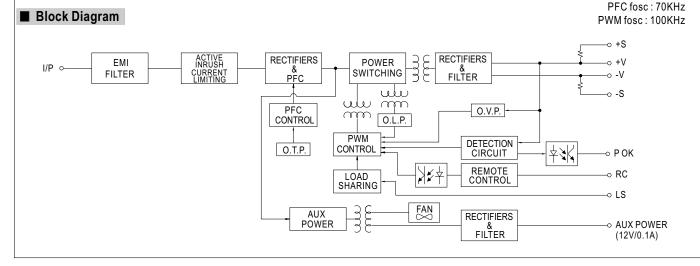
+S: +Remote Sensing

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	LIDO DE44 CDO	UD0 DE44 **00
2	POK	5	RC1	HRS DF11-6DS or equivalent	
3	RCG	6	AUX	or oquivalent	or oquivalent

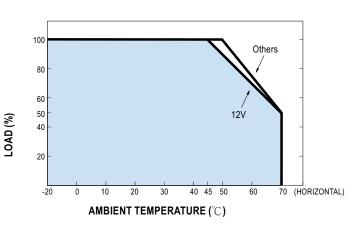
P OK GND: Power OK Ground P OK: Power OK Signal RCG: Remote ON/OFF Ground AUXG: Auxiliary Ground RC1: Remote ON/OFF AUX: Auxiliary Output

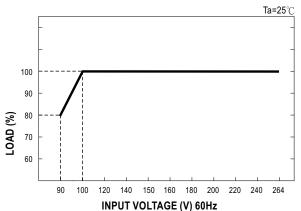




■ Derating Curve

■ 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

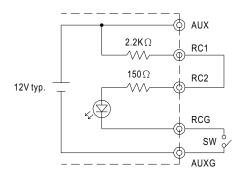
Table 1.1 Specification of Remote ON/OFF

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

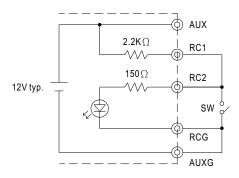
Fig.1.2 Examples of connecting remote ON/OFF

(A)Using external voltage source

(B)Using internal 12V auxiliary output



(C)Using internal 12V auxiliary output





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 explains the alarm function built-in the power supply

Function	Description	Output of alarm(P OK)
P OK	The signal is "Low" when the power supply is above 15% 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 15% of the rated output voltage-Power Fail	High or open (External applied voltage 10mA max.)

Table 2.1 Explanation of alarm function

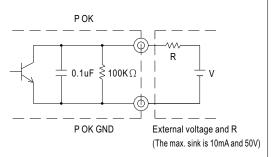
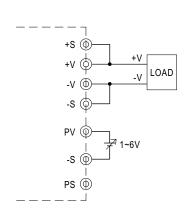
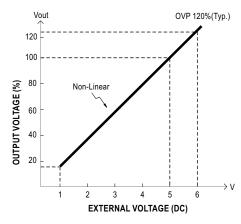
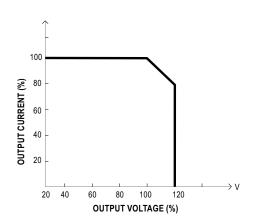


Fig. 2.2 Internal circuit of P OK (Open collector method)

3.External Voltage Control







Note: Reference voltage terminal, PS and PV are connected when shipping

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 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

Note: In parallel connection, maybe only one unit (master) operate if the total output load is less than 5% of rated load condition.

The other PSUs (slaves) may go into standby mode and their output LEDs will not turn on.

