



■ Features :

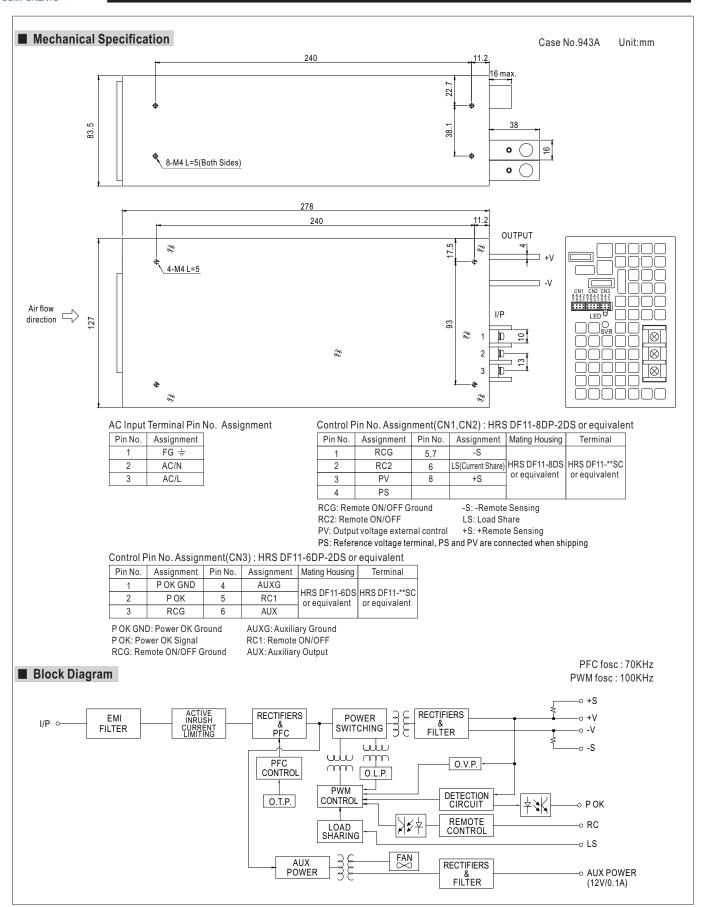
- Universal AC input/Full range
- ZVS new technology
- AC input active surge current limiting
- Built-in active PFC function,PF>0.95
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Forced air cooling by built-in DC ball bearing fan
- High power density 8.3W/inch³
- Output 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

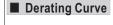


MODEL		SPV-1500-12	SPV-1500-24	SPV-1500-48			
	DC VOLTAGE	12V	24V	48V			
	RATED CURRENT	125A	63A	32A			
	CURRENT RANGE	0 ~ 125A	0~63A	0 ~ 32A			
	RATED POWER	1500W	1512W	1536W			
	RIPPLE & NOISE (max.) Note.2	150mVp-p	150mVp-p	200mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE		% (typ.) adjustment by 1~6VDC external cor				
	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			
		90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR (Typ.)	0.95/230VAC 0.98/115VAC at full load					
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					
		105°C \pm 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)					
	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 "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 along X, Y, Z axes					
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22), EN61000-3-2,-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A					
	MTBF	109K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	278*127*83.5mm (L*W*H)					
	PACKING	3.0Kg; 4pcs/13Kg/1.19CUFT					
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 720mm*360mm metal pla perform these EMC tests, p	lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. ered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on the with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to blease refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) nder low input voltages. Please check the derating curve for more details.					

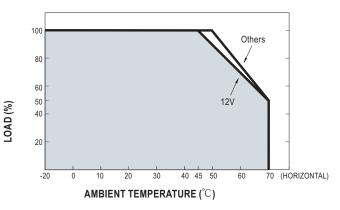


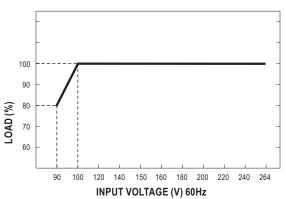






■ Static Characteristics





■ 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

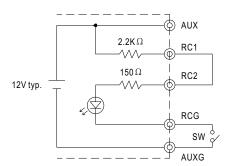
	Connection Method		Fig. 1.2(A)	Fig. 1.2(B)	Fig. 1.2(C)		
5	SW Logic	Output on	SW Open	SW Open	SW Close		
	3 W Logic	Output off	SW Close	SW Close	SW Open		

Fig.1.2 Examples of connecting remote ON/OFF

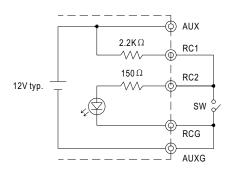
(A)Using external voltage source

AUX 2 2K Ω RC1 **W** $\mathbf{150}\,\Omega$ RC2 12V typ. $\mathbf{620}\,\Omega$ SW RCG AUXG

(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)	
POR	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

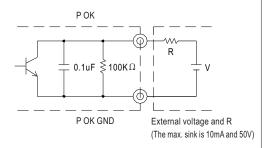
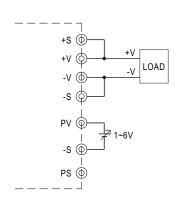
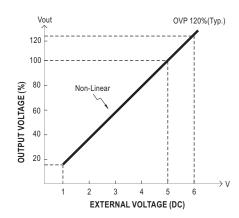
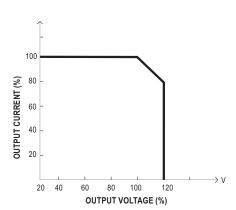


Fig. 2.2 Internal circuit of P OK (Open collector method)

3.External Voltage Control







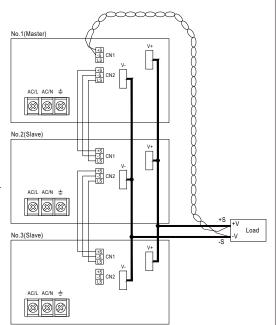
Note: (1) Reference voltage terminal, PS and PV are connected when shipping (2)+S & +V, -S & -V also need to be connected on CN1 or CN2.

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 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 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. (6) Under parallel operation, the "output voltage trim" function is not available.



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