



■ Features

- Protections: Short circuit / Overload / Over voltage /
- Cooling by free air convection
- Constant Voltage design
- 100% full load burn-in test
- Withstand 300VAC surge input for 5 second
- Universal AC input /Full range
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sing applications
- Low cost, high reliability
- 2 years warranty

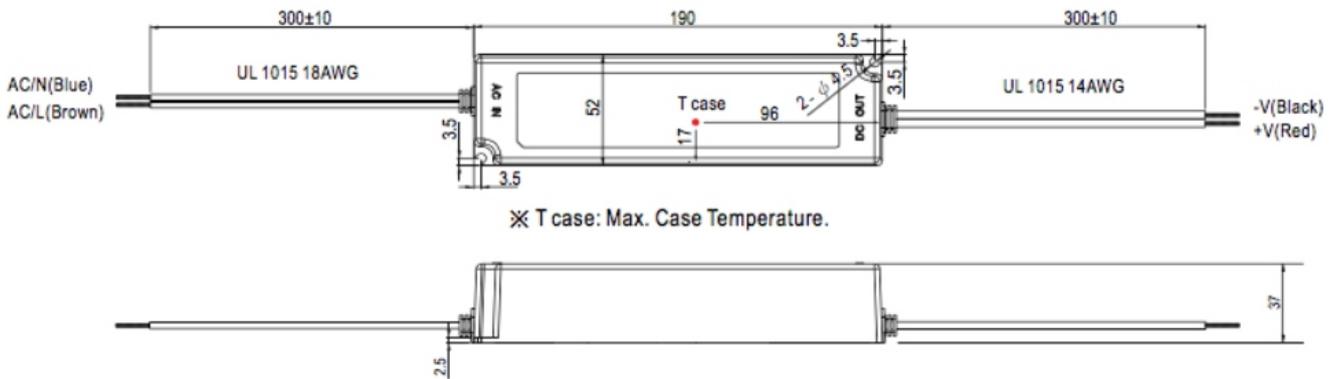
SPECIFICATION

MODEL		SPV-100-12	SPV-100-24		
OUTPUT	DC VOLTAGE	12V	24V		
	RATED CURRENT	8.5A	4.2A		
	CURRENT RANGE	0 ~ 8.5A	0 ~ 4.2A		
	RATED POWER	100W	100W		
	RIPPLE & NOISE (max.)	120mVp-p	120mVp-p		
	VOLTAGE TOLERANCE	±5.0%	±5.0%		
	LINE REGULATION	±1%	±1%		
	LOAD REGULATION	±2%	±2%		
	SETUP, RISE TIME	2000ms, 25ms/230VAC 2000ms,25ms/115VAC at full load			
	HOLD UP TIME (Typ.)	50ms/230VAC 14ms/115VAC at full load			
INPUT	VOLTAGE RANGE	90 -264VAC	127-370VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	85 %	88%		
	AC CURRENT (Typ.)	2.2 A/115VAC	1.2A/230VAC		
	INRUSH CURRENT (Typ.)	COLD STAR 75A (twidth-700us, measured at 50% Ipeak) al 230VAC			
	LEAKAGE CURRENT	<0.25mA / 240VAC			
PROTECTION	OVER LOAD	110 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically a?er fault condition is removed			
	OVER VOLTAGE	13.8 ~ 16.2V	27,6 ~ 32,4V		
		Protection type : Shut down o/p voltage, re -power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, re -power on to recover			
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Dera?ng Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C , 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. ea ch along X, Y, Z axes			
SAFETY & EMC (Note 7)	SAFETY STANDARDS	UI879 -1, TUV EN60950-1, EN60335-1, EN61558-1 /-2-16,CCC GB4943 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC I/P-FG:2 KVAC O/P-FG:1.25 KVAC			
	ISOLATION RESISTANCE	I/ P-O/P, I/ P-FG, O/P-FG:100M Ohms / 500VDC / 25 °C/ 70% RH			
	EMC EMISSION	Compliance to EN55022 (CISPR22), GB9254 Class B, EN55014, EN61000-3-2Class A(≤ 75% Load),EN61000-3-3			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), heavy i ndustry l evel			
OTHERS	MTBF	703K h r s min. MIL-HDBK-217F (25 °C)			
	DIMENSION	192*52*37mm (L*W*H)			
	PACKING	0.59Kg ;25pcs/ 15.5Kg/			

NOTE

1. All parameters NOT specially men?oned are measured at 230VAC input, rated load and 25 °C 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 regula?on and load regula?on.
4. Line regula?on is measured from low line to high line at rated load.
5. Load regula?on is measured from 0% to 100% rated load.
6. Length of set up ?me is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase o f the set up ?me.
7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by moun?ng the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re -confirmed that it s?ll meets EMC direc?ves. For guidance on how to perform these EMC tests, please refer t o EMI tes ng of component power supplies.
8. The ambient temperature dera?ng of 5 °C/1000m is needed for opera?ng al?tude greater than 2000m (6500?).

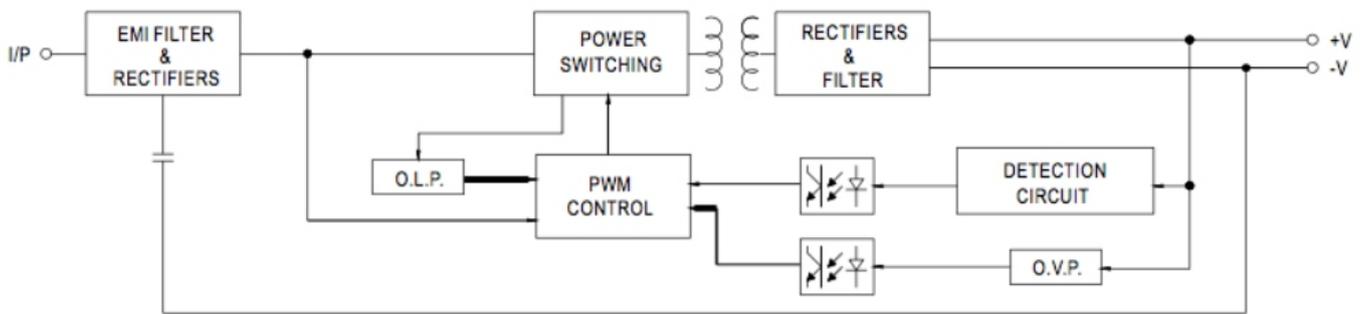
■ Mechanical Specification



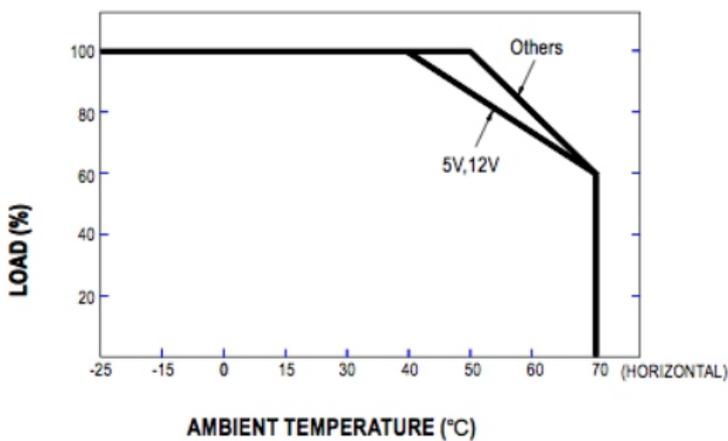
■ Recommend Mounting Direction



■ Block Diagram



■ Derating Curve



■ Static Characteristics

