



■ 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 sign applications
- Low cost, high reliability
- 3 years warranty

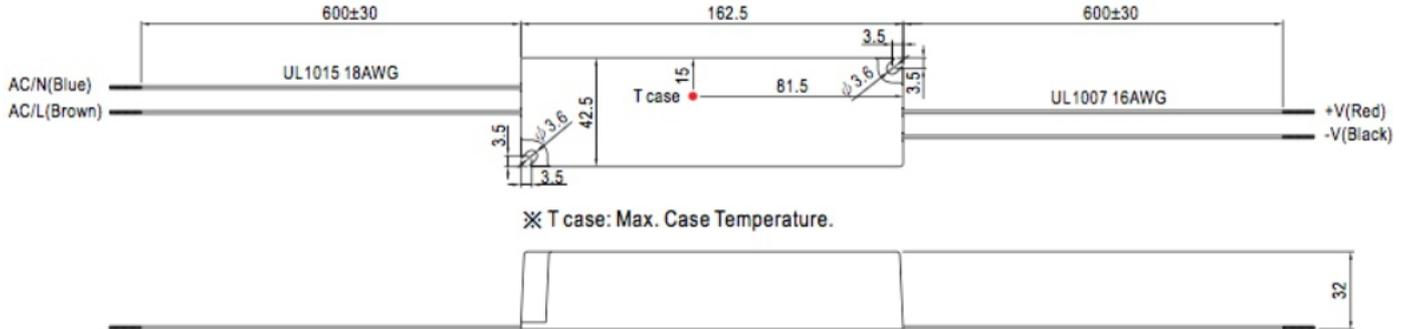
SPECIFICATION

MODEL		SPV-60-12	SPV-60-24		
OUTPUT	DC VOLTAGE	12V	24V		
	RATED CURRENT	5A	2.5A		
	CURRENT RANGE	0 ~ 5A	0 ~ 2.5A		
	RATED POWER	60W	60W		
	RIPPLE & NOISE (max.)	120mVp-p	120mVp-p		
	VOLTAGE ADJ. RANGE	10.2 ~ 13.8V	13.5 ~ 18V		
	VOLTAGE TOLERANCE	±5.0%	±5.0%		
	LINE REGULATION	±2%	±2%		
	LOAD REGULATION	±2%	±2%		
	SETUP, RISE TIME	500ms, 30ms/230VAC 500ms,30ms/115VAC at full load			
HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load				
INPUT	VOLTAGE RANGE	90 -264VAC 127-370VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	83 %	86%		
	AC CURRENT (Typ.)	1.2 A/115VAC 1 A/230VAC			
	INRUSH CURRENT (Typ.)	COLD STAR 60A (twidth-525us, measured at 50% Ipeak) at 230VAC			
LEAKAGE CURRENT	<0.25mA / 240VAC				
PROTECTION	OVER LOAD	110 ~ 140% rated output power Protection type : Hiccup mode, recovers automatically after 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 "Derating 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 industry level				
OTHERS	MTBF	732K h r s min. MIL-HDBK-217F (25 °C)			
	DIMENSION	165*42*32mm (L*W*H)			
	PACKING	0.36Kg ;40pcs/ 15.0Kg/			

NOTE

1. All parameters NOT specially mentioned 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 regulation and load regulation.
4. Line regulation is measured from low line to high line at rated load.
5. Load regulation is measured from 0% to 100% rated load.
6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time.
7. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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.
8. The ambient temperature derating of 5 °C/1000m is needed for operation altitude greater than 2000m (6500?).

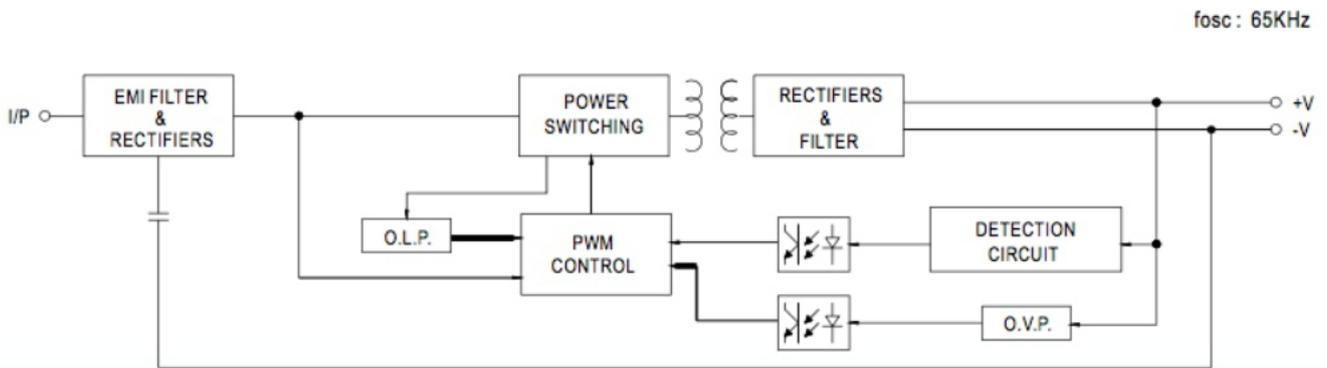
■ Mechanical Specification



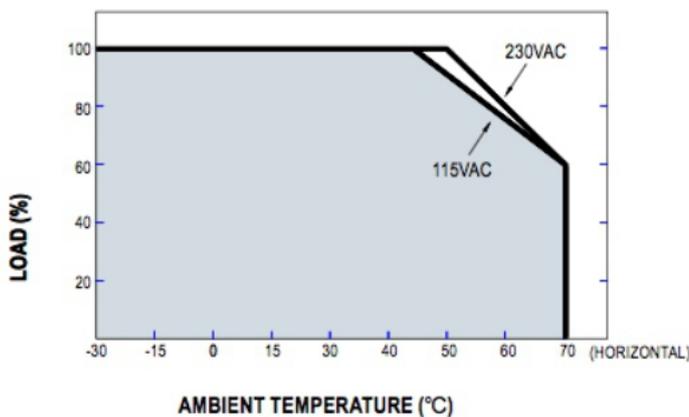
■ Recommend Mounting Direction



■ Block Diagram



■ Derating Curve



■ Static Characteristics

