

Features:

- Constant voltage design
- 90-264VAC input range
- Fully encapsulated with IP67 level, Fully isolated plastic case, laser labeling
- Protections: short circuit, over load, over temperature
- Cooling by free air convection
- Class II power unit, no FG
- Passed LPS (Limited Power Source) Test
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- High reliability/Low cost
- 3 Years warranty

SPECIFICATION

Dimension: 97 × 30 × 22mm



	Model	LPV-12E-12	LPV-12E-24	LPV-12E-36
Output	DC voltage	12V	24V	36V
	Rated current	1A	0.5A	0.33A
	Current range	0 ~ 1A	0 ~ 0.5A	0 ~ 0.33A
	Rated power	12W	12W	11.9W
	Ripple&noise	150mVp-p	150mVp-p	150mVp-p
	Voltage tolerance	± 3.0%		
	Line regulation	± 1.0%		
	Load regulation	± 2.0%		
	Setup, rise time	800ms, 20ms/110&230VAC at full load		
	Hold up time	24ms/110&230VAC at full load		
Input	Voltage range	90~264VAC 135~370VDC		
	Efficiency	82%	83%	83%
	Frequency range	47~63Hz		
	AC current	0.3A/115VAC, 0.15A/230VAC		
	Inrush current	Cold start 30A/230VAC (twidth=150 μs measured at 50% Ipeak)		
Leakage current	< 0.2 mA/240VAC			
Protection	Overload	135%~175% rated output power Start overload protection Protection type: hiccup mode, auto-recovery after fault condition is removed		
	Over temperature	When temperature of transistor inner node is over 150 ± 10°C, start over temperature protection Protection type: cutoff output, recovers automatically after temperature goes down		
Environment	Working temperature	-30°C ~ +70°C (Please refer to "derating curve")		
	Working humidity	20%~90%RH Non-condensing		
	Storage temp, humidity	-40°C ~ +80°C; 10%~95%RH		
	Temp. coefficient	± 0.03%/°C (0~50°C)		
Safety & EMC	Vibration	10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes		
	Safety standards	TUV EN 62368-1, TUV EN 61347-2-13, IP67 approved; design refer to UL 1310 Class 2, CAN/CSA No.223-M91		
	Withstand voltage	I/P-O/P: 3KVAC		
	Isolation resistance	I/P-O/P: 100M Ohms/500VDC/25°C/70%RH		
	EMC emission	Compliance to EN55015(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3		
Others	EMC immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, EN55024, light industry level, criteria A		
	MTBF	1300K hrs min. MIL-HDBK-217F(25°C)		
	Dimension	97*30*22 mm (L*W*H)		
	Packing	0.113kg/120pcs/13.5kgs/0.027m³/0.95CUFT		

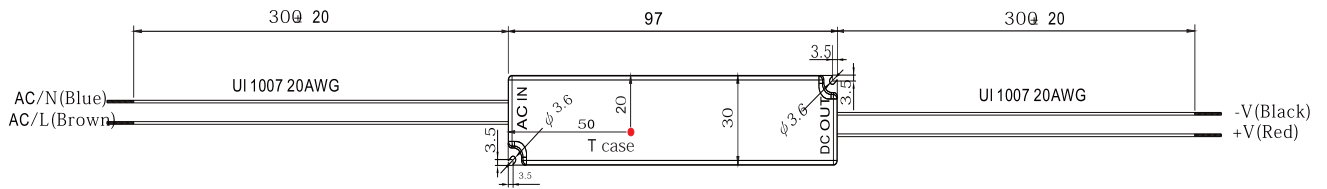
Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μf & 47μf parallel capacitor.
 3. Tolerance : includes set up tolerance, line regulation and load regulation.
 4. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
 5. Suitable for indoor use or outdoor use without direct sunlight exposure.

Mechanical specification

Unit:mm

lead-out wire assignment

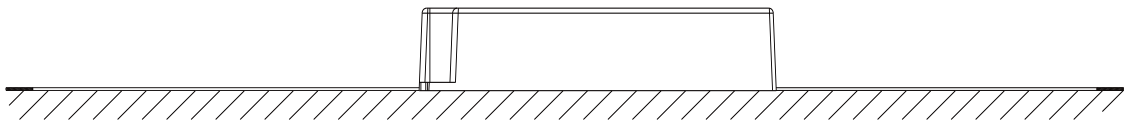
Input		Output	
Blue	AC/N	Black	DC OUTPUT -V
Brown	AC/L	Red	DC OUTPUT +V



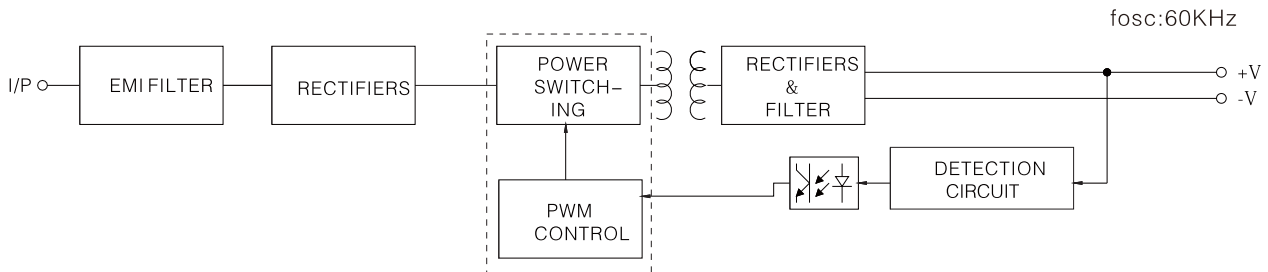
※T case: Max. Case Temperature



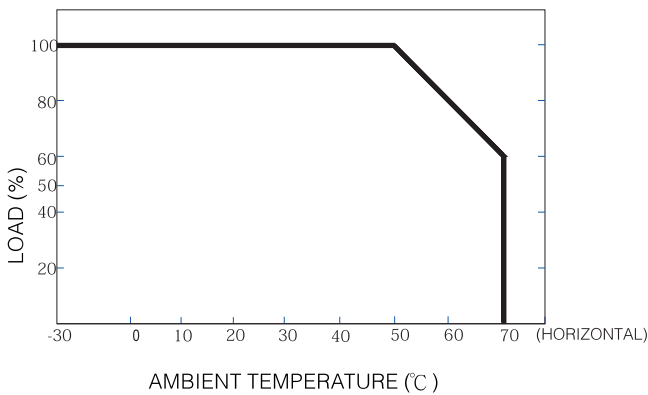
Recommend Mounting Direction



Block diagram



Derating curve



Static characteristic

