

60W Single Output Switching Power Supply LPV-60 series



- Features :
- Constant voltage design
 - Universal AC input / Full range
 - Withstand 300VAC surge input for 5 seconds
 - Protections: Short circuit / Overload / Over voltage
 - Cooling by free air convection
 - Fully encapsulated with IP67 level (Note.8)
 - Fully isolated plastic case
 - Class II power unit, no FG
 - Class 2 power unit
 - Pass LPS
 - Suitable for LED lighting and moving sign applications (Note.7)
 - 100% full load burn-in test
 - Low cost, high reliability
 - 2 years warranty

SPECIFICATION

□ LPS IP67  (for 48V only)  US (except for 5V,48V) 

MODEL		LPV-60-12	LPV-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.) Note.2	120mVp-p	150mVp-p
	VOLTAGE TOLERANCE Note.3	±5.0%	
	LINE REGULATION		
INPUT	LOAD REGULATION	±2.0%	
	SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC 500ms, 20ms / 115VAC at full load(for 5~36V) ; 500ms, 30ms / 230VAC	500ms, 30ms / 115VAC at full load(for 48V)
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load	
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	83%	86%
	AC CURRENT (Typ.)	1.2A/115VAC 1A/230VAC	
PROTECTION	INRUSH CURRENT(max.)	COLD START 60A(twidth=525μs measured at 50% Ipeak) at 230VAC	
	LEAKAGE CURRENT	0.25mA / 240VAC	
	OVERLOAD	110 ~ 150% rated output power	
ENVIRONMENT	OVER VOLTAGE	13.8 ~ 16.2V	27.6 ~ 32.4V
	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
SAFETY & EMC	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
OTHERS	SAFETY STANDARDS	UL879(except for LPV-60-5), UL1310(except for LPV-60-5), CSA C22.2 No. 207-M89(except for LPV-60-5, LPV-60-48), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5, LPV-60-48), IP67 approved ; design refer to TUV EN60950-1	
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH	
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3	
NOTE	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A	
	MTBF	732Khrs min. MIL-HDBK-217F (25℃)	
	DIMENSION	162.5*42.5*32mm (L*W*H)	
	PACKING	0.4Kg; 32pcs/13.8Kg/0.56CUFT	

1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Derating may be needed under low input voltage. Please check the static characteristics for more details.
5. 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.
6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
7. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.
8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.