

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 / Over current / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.8)
- Fully isolated plastic case
- Class ${\rm I\!I}$ power unit, no FG
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.7)

□ LPS IP67 **51** (for 48V only) **c51** (scept for 5V.48V) **C €**

- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

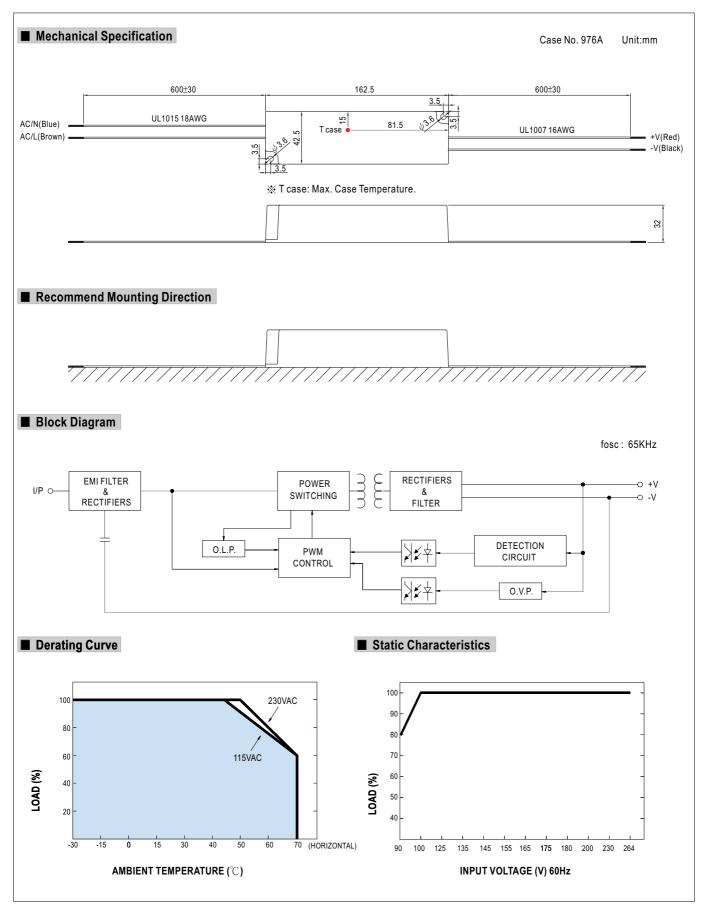


MODEL		LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V	
	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A	
	CURRENT RANGE	0 ~ 8A	0~5A	0~4A	0~2.5A	0~1.67A	0~1.25A	
	RATED POWER	40W	60W	60W	60W	60W	60W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p	
	VOLTAGE TOLERANCE Note.3	±8.0% ±5.0%						
	LINE REGULATION	±1.0%						
	LOAD REGULATION	±6.0% ±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						
INPUT	FREQUENCY RANGE	47 ~ 63Hz						
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%	
	AC CURRENT (Typ.)	1.2A/115VAC 1A/230VAC						
	INRUSH CURRENT(max.)	COLD START 30A/115VAC 60A/230VAC						
	LEAKAGE CURRENT	0.25mA / 240VAC						
PROTECTION	OVER CURRENT	110 ~ 150% rated output power						
	OVER CORRENT	Protection type : Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	5.75~6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V	
		Protection type : Shut down o/p voltage, re-power on to recover						
ENVIRONMENT	WORKING TEMP.	-30 ~ +70 $^\circ\mathrm{C}$ (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
SAFETY & EMC	SAFETY STANDARDS	UL879, UL1310 Class 2(except for LPV-60-5), CAN/CSA C22.2 No. 223-M91(except for LPV-60-5, LPV-60-48), IP67 approved ; design refer to TUV EN60950-1, EN61347-2-13						
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC						
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH						
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3						
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A						
OTHERS	MTBF	732Khrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	162.5*42.5*32mm (L	*W*H)					
	PACKING	0.4Kg; 32pcs/13.8Kg	/0.56CUFT					
NOTE	 Ripple & noise are measure Tolerance : includes set up Derating may be needed ur The power supply is consid complete installation, the fin Length of set up time is me In the European market this EN61000-3-2 Class C. 	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. pple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. lerance : includes set up tolerance, line regulation and load regulation. arating may be needed under low input voltage. Please check the static characteristics for more details. le power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the mplete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. Ingth 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. the European market this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of N61000-3-2 Class C. itable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.						



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File Name:LPV-60-SPEC 2011-06-24