

## 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  ${\rm I\hspace{-1.5pt}I}$  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

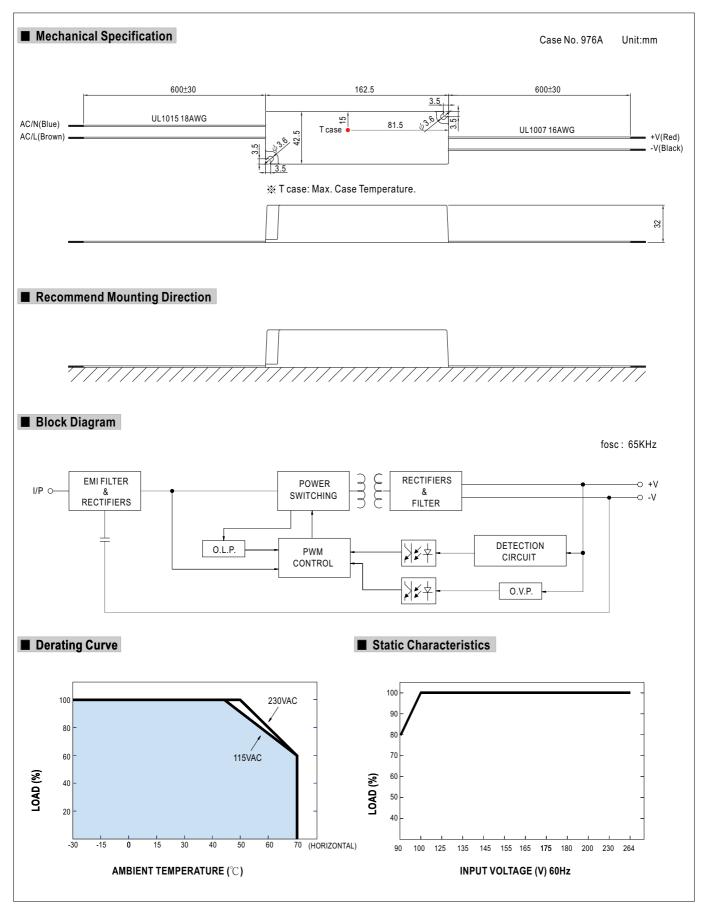


MODEL		LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	8A	5A	4A	2.5A	1.67A	1.25A
	CURRENT RANGE	0~8A	0~5A	0~4A	0~2.5A	0~1.67A	0~1.25A
	RATED POWER	40W	60W	60W	60W	60W	60W
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	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					
INPUT		90 ~ 264VAC 127 ~ 370VDC					
	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		110 ~ 150% rated output power					
	OVER CURRENT	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
			it down o/p voltage, re				1.0.2
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")					
		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 OTHERS	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						
	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					
		Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A					
	MTBF	732Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	162.5*42.5*32mm (L					
	PACKING	0.4Kg; 32pcs/13.8Kg	,				
NOTE	<ol> <li>All parameters NOT specia</li> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ui</li> <li>The power supply is consid complete installation, the fir</li> <li>Length of set up time is me</li> <li>In the European market this EN61000-3-2 Class C.</li> </ol>	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. neasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. eded under low input voltage. Please check the static characteristics for more details. considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. a is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. ket this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of C. se 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