

60W Single Output Switching Power Supply

LPV-60 series



Features:

- Constant voltage design
- Universal AC input / Full range
- Fully encapsulated with IP67 level (Note.8)
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Fully isolated plastic case
- Cooling by free air convection
- UL1310 Class 2 power unit
- Pass LPS
- 100% full load burn-in test
- · Low cost, high reliability
- Suitable for LED lighting and moving sign applications (Note.7)
- 2 years warranty

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LFJ	IPO/	(fax 40\(anlu\)	C TIO (avecant for EV 40V)		┖
		(IOI 46 V OIIIy)	US (except for 5 v, 46 v)	•	•

MODEL		LPV-60-5	LPV-60-12	LPV-60-15	LPV-60-24	LPV-60-36	LPV-60-48		
	DC VOLTAGE	5V	12V	15V	24V	36V	48V		
ОИТРИТ	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							
	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%		
INPUT	AC CURRENT	1.2A/115VAC 1A/	230VAC	<u> </u>		-			
	INRUSH CURRENT(max.)	COLD START 30A/115VAC 60A/230VAC							
	LEAKAGE CURRENT	0.25mA / 240VAC							
	OVER OURRENT	110 ~ 150% rated output power							
	OVER CURRENT	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
PROTECTION		5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	55.2 ~ 64.8V		
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover							
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
ENVIRONMENT	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 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							
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH							
EMC	EMI CONDUCTION & RADIATION								
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class A, EN61000-3-3							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A							
	MTBF	732Khrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	162.5*42.5*32mm (L*W*H)							
	PACKING	0.4Kg; 32pcs/13.8Kg/0.56CUFT							
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. 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. In the European market this product is only suitable for LED lighting applications that don't have to comply with the harmonic current requirements of EN61000-3-2 Class C. 8. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.								



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