

MEAN WELL LPC-60 Series 60W Single Output Switching Power Supply User Manual

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Output Switching Power Supply
User Manual



60W Single Out put Switching Power Supply LPC-60 series

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LPC-60 Series 60W Single Output Switching Power Supply

Features:

- · Constant current design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over voltage
- Cooling by free air convection
- Fully encapsulated with IP67 level (Note.7)
- Fully isolated plastic case
- Class II power unit, no FG
- · Class 2 power unit
- Pass LPS
- Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.10)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

SPECIFICATION

MODEL		LPC-60-1050	LPC-60.1400	LPC-60.1750		
OUTP	RATED CURREN T	1050mA	1400mA	1750mA		
	DC VOLTAGE RA NGE	9 – 48V	9 – 42V	9 – 34V		
	RATED POWER	50.4W	58.8W	59.5W		
	RIPPLE & NOISE (max.) Note.2	200mVp-p	200mVp-p	200mVp•p		
	VOLTAGE TOLER ANCE Note.3	±5.0%				
	CURRENT ACCU RACY	±5.0%				
	LINE REGULATIO N	±1.0%				
	LOAD REGULATI ON	±2.0%				
	SETUP, RISE TIM E Note.6	500ms. 120ms / 230VAC 500ms, 120ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load				
	VOLTAGE RANGE Note.4	90 – 264VAC 127 – 370VDC				

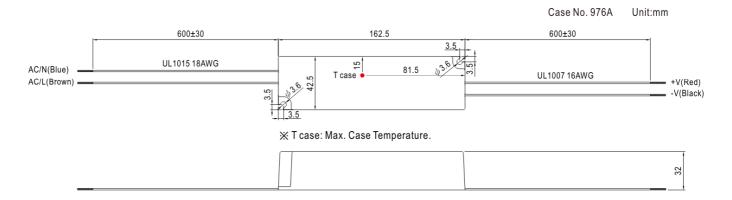
	FREQUENCY RA	47 – 63Hz				
	EFFICIENCY (Typ	87%	l85%	187%		
INPUT	AC CURRENT (Ty p.)	1.2A/115VAC 0.7AI230VAC				
	INRUSH CURRE NT(Typ.)	COLD START 60A(twidth.7540us measured at 50% (peak) at 230VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	3 units (circuit breaker of type 13) / 6 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURR ENT	0.25mA/ 240VAC				
PROT ECTIO N	OVER VOLTAGE	50.4 – 60V	I 44.1 – 56.7V	1 39.1 – 45.9V		
		Protection type : Shut off olp voltage. clamping by TVS diode				
	WORKING TEMP.	-30 - +70°C (Refer to iterating Curve')				
ENVIR ONME NT	WORKING HUMI DITY	20 – 90% RH noncondensing				
	STORAGE TEMP. , HUMIDITY	•0 – +80°C. 10 – 95% RH				
	TEMP. COEFFICI ENT	±0.03%/°C (0 – 50°C)				
	VIBRATION	10 – 500Hz. 2G 10min./l cycle. period for 60min. each along X, Y, Z axes				
SAFET Y & E MC	SAFETY STANDA RDS	UL1310. CAN/CSA C22.2 No. 223•M91(for LPC-60-I 750 only). BIS 1515885(exc ept for LPC-60.1750), EAC TP TC 004, IP67, IEC62368•1 . BS EN/EN62368.I app roved				
	WITHSTAND VOL TAGE	I/P-0/P:3KVAC				
	ISOLATION RESI STANCE	1/P-0/P:>100M Ohms / 500VDC / 25°C/ 70% RH				
	EMC EMISSION	Compliance to BS EN!EN55032 (CISPR32) Class B. BS EN/EN61000-3-2 Class A, BS ENIEN61000-3-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN6I 0004-2,3,4,5.6.8.11 , BS EN1EN55035, light industry level. EAC TP TC 020				
OTHE RS	MTBF	5269.3K hrs min. Telcordia SR-332 (Bellcore) : 567.2K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	162.5'42.5'32mm (L'W'H)				
	PACKING	0.4Kg; 32pcs113.8Kg10.63CUFT				
110						

- 1.Al parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of amb ient 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 de tails.
- 5. The power supply is considered as a component that will be operated I-1 combination with final equipment Since EMC performance will be affected by the complete installation, the final equipment m anufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.corriftUp4oad/PDREMI statement en.pdf)

NOTE

- 6.Length of set up time is measured at first coed start. Tuming ON/OFF the power supply may lead to i ncrease of the set up time.
- 7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
- 8. The ambient temperature derating of 3.5C/1000m with fanless models and of SC/1000m with fan models for operating altitude higher than 2000m(6501:10.
- 9. For any application note and IP water proof function installation caution, please refer our user manual before using. <a href="https://http
- 10. This product is not intended for LED lighting luminaire applications in the EU. (In the EU the LPF/NP F/XLG series are recommended.)
- x Product Liability Disclaimer: For detailed information, please refer to httpsfAwww.meanwelloomiserviceDisciakner.aspx

Mechanical Specification

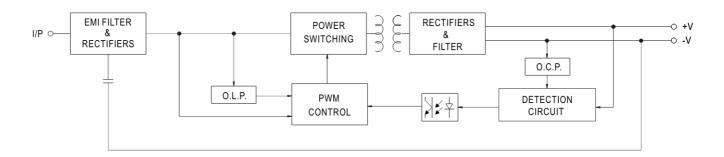


Recommend Mounting Direction

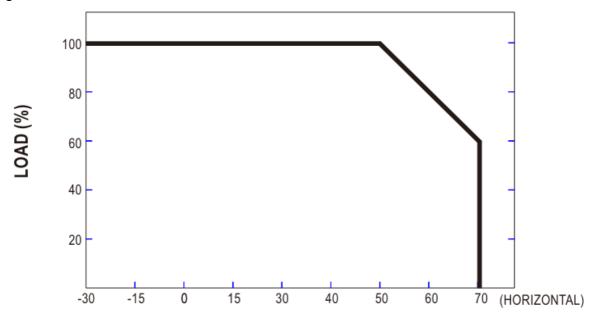


Block Diagram

fosc: 60KHz

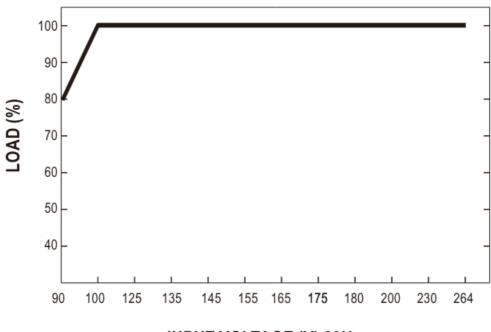


Derating Curve



AMBIENT TEMPERATURE (°C)

Static Characteristics



INPUT VOLTAGE (V) 60Hz



http://www.meanwell.com.cn/Upload/PDF/LED_EN.pdf



Documents / Resources



MEAN WELL LPC-60 Series 60W Single Output Switching Power Supply [pdf] User Manual LPC-60 Series 60W Single Output Switching Power Supply, LPC-60 Series, 60W Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Supply Supply

References

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