

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

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60W Single Output Switching Power Supply
LPV- 60 series
User Manual



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Features:

- · Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over load / 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 fixtures or appliances (such as LED Decoration or Advertisement devices)(Note. 7)
- 100% full load burn-in test
- · Low cost, high reliability
- 2 years warranty



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

SPECIFICATION

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
	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

1 1									
	RIPPLE & NOISE (m ax.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p		
OU TP UT	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, 3 0ms / 230VAC 500ms, 30ms / 115VAC at full load(for 48V)							
	HOLD UP TIME (Typ	50ms/230VA	C 16ms/ ⁻	115VAC at full	load				
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC							
FREQUENCY RANG E 47 ~ 63Hz									
	EFFICIENCY (Typ.)	76%	83%	83%	86%	86%	86%		
	AC CURRENT (Typ.)	1.2A/115VAC 1A/230VAC							
IN PU T INRUSH CURRENT(Typ.) COLD START 60A(twidth=525µs measured				red at 50% Sp	eak) at 230VA	С			

	MAX. No. of PSUs o n 16A CIRCUIT BRE AKER	3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC						
	LEAKAGE CURREN T	0.25mA / 240VAC						
PR OT EC TI ON	OVERLOAD	110 ~ 150% rated output power						
		Protection type: Hiccup mode, recovers automatically after the fault condition is re moved						
	OVERVOLTAGE	5.75 ~ 6.75 V	13.8 ~ 16.2 V	17.25 ~ 20. 25V	27.6 ~ 32.4 V	41.4 ~ 48.6 V	55.2 ~ 64.8 V	
		Protection type: Shut down o/p voltage, re-power on to recover						
EN VI RO N ME NT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDIT Y	20 ~ 90% RH non-condensing						
	STORAGE TEMP., H UMIDITY	-40 ~ +80°C, 10 ~ 95% RH						
	TEMP. COEFFICIEN T	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, the period for 60min. each along X, Y, and Z axes						
		I						

SA FE TY & EM C	SAFETY STANDAR DS	UL879(except for LPV-60-5), UL1310(except for LPV-60-5), CSA C22.2 No. 20 M89(except for LPV-60-5, LPV-60-48), CAN/CSA C22.2 No. 223-M91(except for PV-60-5, LPV-60-48), BIS IS15885(for LPV-60-12, LPV-60-24 only), EAC TP TC 4, IP67, IEC62368-1, BS EN/EN62368-1 approved					
	WITHSTAND VOLTA GE	I/P-O/P:3KVAC					
	ISOLATION RESIST ANCE	I/P-O/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 EN/EN61000-3-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry I evel, EAC TP TC 020					
	MTBF	5188.4K hrs min. Telcordia SR-332 (Bellcore); 732.1Khrs min. MIL-HDBK-21 7F (25°C)					
	DIMENSION	162.5*42.5*32mm (L*W*H)					
	PACKING	0.4Kg; 32pcs/13.8Kg/0.63CUFT					
OT HE							

RS

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load, and 25°C of ambie nt 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 detail s.
- 5. The power supply is considered a component that will be operated in combination with the final equipm ent. Since EMC performance will be affected by the complete installation, the final equipment manufacture rs 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 an i ncrease in the setup time.

7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immersing in the

- water for over 30 minutes.
- 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitudes higher than 2000m(6500ft).
- 9. Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.
- 10. For any application note and IP waterproof function installation caution, please refer to our user manu al before using.

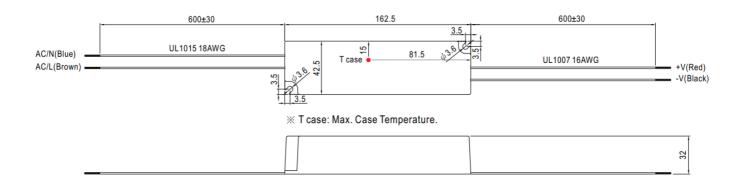
https://www.meanwell.com/Upload/PDF/LED EN.pdf

- 11. This product is not intended for LED lighting luminaire applications in the EU.(In the EU the LPF/NPF/ XLG series are recommended.)
- * Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/servi ceDisclaimer.aspx

Mechanical Specification

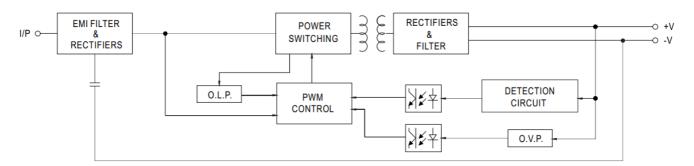
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ΤE

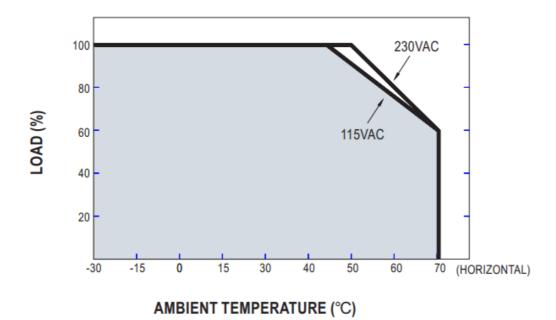


Recommend Mounting Direction

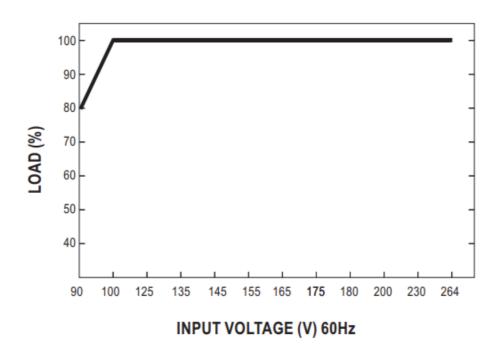




Derating Curve



Static Characteristics



GTIN CODE

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

Documents / Resources



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



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MEAN WELL LPV-60 Series 60W Single Output Switching Power Supply [pdf] User Guide LPV-60 Series, 60W Single Output Switching Power Supply, LPV-60 Series 60W Single Output Switching Power Supply, Single Output Switching Power Supply, Output Switching Power Supply, Switching Power Supply, Switching Power Supply, Supply, LPV-60-5, LPV-60-12, LPV-60-15, LPV-60-24, LPV-60-36, LPV-60-48

References

• Product Liability Disclaimer-MEAN WELL Switching Power Supply Manufacturer

Manuals+,