MIRЯORSTONE

NeoPower 150W Waterproof LED Driver



Introducing NeoPower

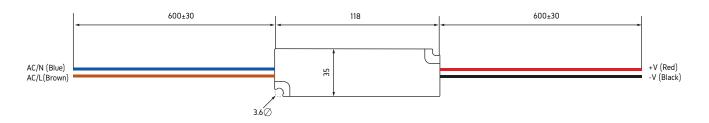
Our innovative NeoPower range of LED drivers has been completely retooled to maximise the efficiency of the transformer. These are highly toughened devices, featuring upgraded waterproofness and excellent ingress protection. Thanks to a finely tuned, the heat sink is capable of dissipating more heat than ever, extending the life of the device.

Product Features

- Constant voltage design
- 180~305VAC input for LPV-150
- Fully encapsulated with IP67 level (Note.8)
- · Class II power unit, no FG
- Protections: Short circuit/Overload/Over voltage/ Over temperature
- Fully isolated plastic case
- Fanless design, cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Listed in UL Sign Component Manual (SAM)
- Type "HL" for use in class |
- 2 years warranty
- Suitable for LED related fixture or appliance



Technical Dimensions



Recommended Mounting Direction



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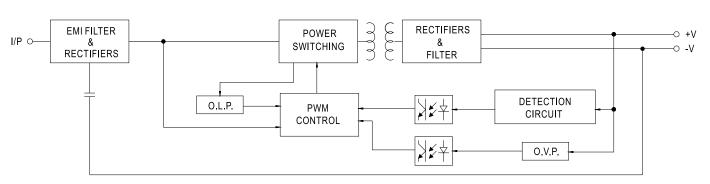
ОИТРИТ	DC VOLTAGE		12V	24V
	RATED CURRENT		10A	6.3A
	CURRENT RANGE		0 ~ 10A	0 ~ 6.3A
	RATED POWER		120W	151,2W
	RIPPLE & NOISE (max.) Note.2		200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3			
	LINE REGULATION		±1.0%	
	LOAD REGULATION		±2.0%	
	SETUP, RISE TIME Note.6		LPV-150: 500ms, 50ms / 230VAC 500ms, 50ms / 277VAC; LPVL-150: 1500ms, 50ms / 115VAC	
	HOLD UP TIME (Typ.)		LPV-150: 18ms/230VAC 20ms/277VAC at full load; LPVL-150: 10ms/115VAC at full load	
	VOLTAGE RANGE Note.4		LPV-150: 180 ~ 305VAC 254 ~ 431VDC; LPVL-150: 90~132VAC	
INPUT	FREQUENCY RANGE		47 ~ 63Hz	
	EFFICIENCY (Typ.)		87%	
	AC CURRENT		LPV-150: 1.7A/230VAC 1.5A/277VAC; LPVL-150: 3.0A/115VAC	
	INRUSH CURRENT (Typ.)	Blank type		
		L type	COLD START 75A(twidth=900µs measured at 50% Ipeak) at 115VAC	
	MAX. No. of PSUs on 16A CIRCUIT	Blank type	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC	
	BREAKER	L type	1 units (circuit breaker of type B) / 2 units (circuit breaker of type C) at 115VAC	
	LEAKAGE CURRENT		LPV-150: 0.25mA / 240VAC LPVL-150:0.25m	A / 120VAC
PROTECTION	OVERLOAD		110 ~ 150% rated output power	
			Protection type: Hiccup mode, recovers automatically after fault condition is removed	
	OVER VOLTAGE		13.5 ~ 18V 27 ~ 35V	
			Protection type: Shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE		Shut down o/p voltage, recovers automatically after temperature goes down	
ENVIRONMENT	WORKING TEMP.		-25 ~ +65°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 ~ 40°C for LPV-150-12,15 and LPVL-150-12,24;0~50°C for LPV-150-24,36,48)	
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY Blank type STANDARDS		IP67;IEC/EN 62368-1 approved.	
		L type	UL8750(type"HL"),CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,IP67 approved	
	WITHSTAND VOLTAGE		I/P-O/P:3KVAC	
	ISOLATION RESISTANCE		I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH	
	EMC EMISSION	Blank type		
		L type	Compliance to FCC part 15	
	EMC IMMUNITY	Blank type	Compliance to EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A, EAC TP TC 020	
		L type	Design refer to IEC61000-4-2,3,4,5,6,8,11; light industry level, criteria A	
OTHERS	MTBF		703Khrs min. MIL-HDBK-217F (25°C)	
	DIMENSION		191*63*37.5mm (L*W*H)	
	PACKING		LPV-150: 0.74Kg;20pcs/15.8Kg/0.95CUFT; LPVL-150: 0.85Kg;20pcs/17Kg/0.95CUFT	
NOTE	 All parameters NOT specially mentioned are measured at 230VAC(115VAC for LPVL) input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Derating may be needed under low input voltage. Please check the static characteristics for more details. 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. 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. Suitable for indoor use or outdoor use without direct sunlight exposure. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf 			
	10. This product is not intended for LED applications in the EU.(In the EU NPF/LPF/XLG series are recommended.) 11. To fulfill requirements of latest ErP regulation for lighting luminaires, this LED Driver can only be used behind a switch without permanently connected to mains. ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			

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Block Diagram

PWM fosc: 47KHz



Derating Curve

Static Characteristics

