150W Single Output Switching Power Supply — LPVL-150 series



Features :

- Constant voltage design
- 90~132VAC input only
- 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
- Cooling by free air convection
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for use in Dry, Damp and Wet Locations
- Suitable for LED lighting and moving sign applications(Note 7.)
- 2 years warranty

IP67 E320521 E334687

SPECIFICATION

MODEL		LPVL-150-12	LPVL-150-24
OUTPUT	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	±5.0%	
	LINE REGULATION	±1.0%	
	LOAD REGULATION	±2.0%	
	SETUP, RISE TIME Note.6	1500ms, 50ms / 115VAC	
	HOLD UP TIME (Typ.)	10ms/115VAC at full load	
INPUT	VOLTAGE RANGE Note.4	90 ~ 132VAC	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	87%	89%
	AC CURRENT	3.0A/120VAC	
	INRUSH CURRENT(Typ.)	COLD START 75A(twidth=900μs measured at 50% Ipeak) at 115VAC	
	LEAKAGE CURRENT	0.25mA / 115VAC	
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 ~ +60℃ (Refer to "Derating Curve")	
	WORKING HUMIDITY	20 ~ 90% RH non-condensing	
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH	
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)	
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes	
SAFETY & EMC	SAFETY STANDARDS	UL8750,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℃/ 70% RH	
	EMC EMISSION	Compliance to FCC part 15	
	EMC IMMUNITY	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℃)	
	DIMENSION	191*63*37.5mm (L*W*H)	
	PACKING	0.74Kg;20pcs/15.8Kg/0.95CUFT	

NOTE

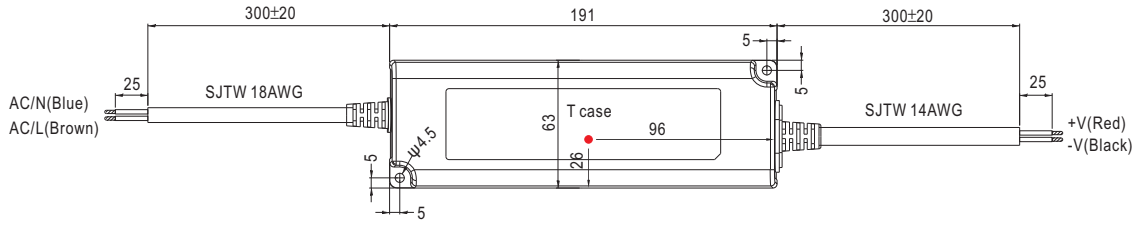
1. All parameters NOT specially mentioned are measured at 115VAC input, rated load and 25℃ of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation 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. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.
8. Suitable for indoor use or outdoor use without direct sunlight exposure.

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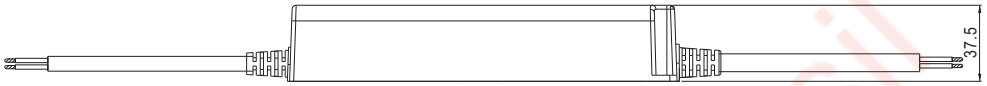
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■ Mechanical Specification

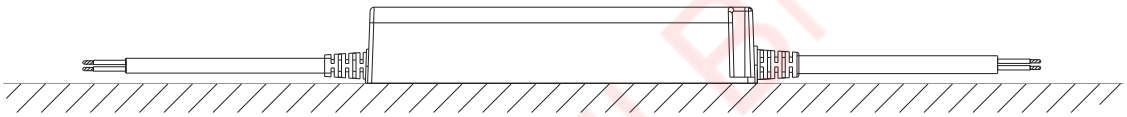
Case No. LPC-150 Unit:mm



※ T case: Max. Case Temperature.

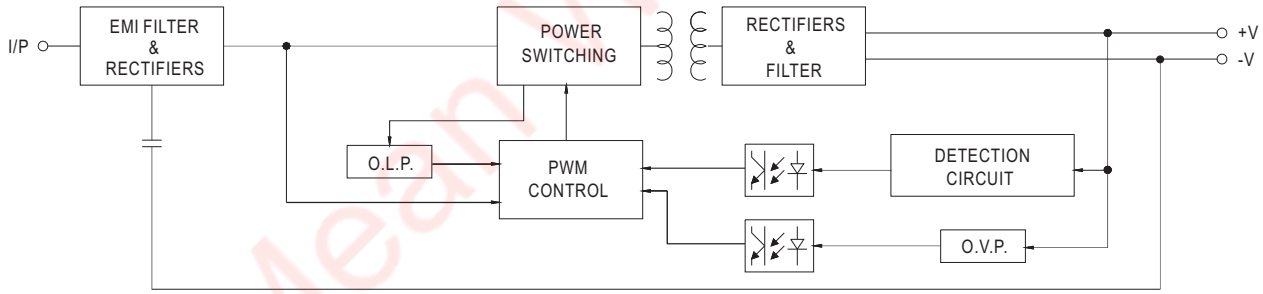


■ Recommend Mounting Direction

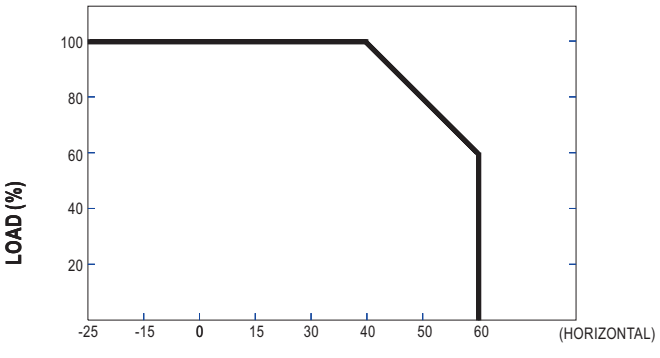


■ Block Diagram

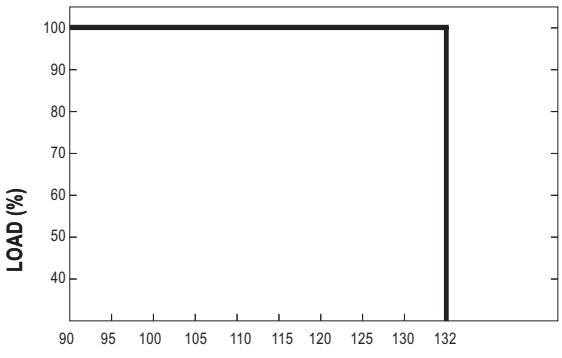
PWM fosc : 47KHz



■ Derating Curve



■ Static Characteristics



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