









 Suitable for LED related fixture or appliance (such as LED Decoration or Advertisement devices)(Note.10)

#### GTIN CODE

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

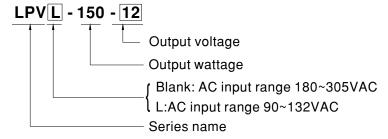
#### **■** Features

- · Constant voltage design
- 90~132VAC input for LPVL-150 180~305VAC input for LPV-150
- Fully encapsulated with IP67 level (Note.7)
- · 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 I, Division 2 hazardous (Classified) location luminaires for LPVL-150
- · 2 years warranty

### ■ Description

LPV-150 and LPVL-150 are 150W single output power supplies that specifically and perfectly work for LED lighting and LED moving sign applications. As a class II power unit, these two series are housed with the UL 94V-0 rated flame retardant plastic enclosure. The IP67 design allows every model to fit the use at dry, damp and wet locations. Both series are constant voltage mode design that various models with 12V, 15V, 24V, 36V and 48V are offered for LPV-150 where as 12V and 24V are provided for LPVL-150.

## **■** Model Encoding

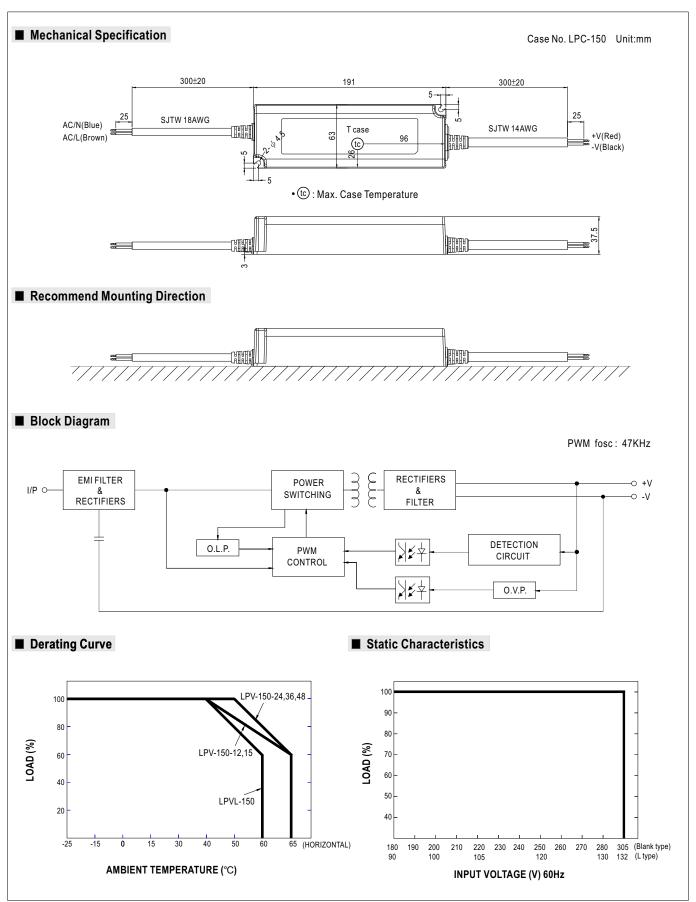




#### **SPECIFICATION**

MODEL		LPV -150-12	LPV-150-15	LPV150-24	LPV-150-36	LPV-150-48	
	DC VOLTAGE		12V	15V	24V	36V	48V
ОИТРИТ	RATED CURRENT		10A	8A	6.3A	4.2A	3.2A
	CURRENT RANGE		0 ~ 10A	0 ~ 8A	0 ~ 6.3A	0 ~ 4.2A	0 ~ 3.2A
	RATED POWER		120W	120W	151.2W	151.2W	153.6W
	RIPPLE & NOISE (max.) Note.2		200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3			P P			
	LINE REGULATION		±1.0%				
	LOAD REGULATION		±2.0%				
	SETUP, RISE TIME Note.6		LPVL-150: 500ms, 50ms / 230VAC 500ms, 50ms / 277VAC; LPVL-150: 1500ms, 50ms / 115VAC				
	HOLD UP TIME (Typ.)		LPV-150: 18ms/230VAC				
INPUT			LPV-150: 180 ~ 305VAC 254 ~ 431VDC; LPVL-150: 90~132VAC				
	FREQUENCY RANGE		47 ~ 63Hz				
	EFFICIENCY (Typ.)		87%	88%	89%	89%	90%
	AC CURRENT		LPV-150: 1.7A/230VAC		LPVL-150: 3.0A/115VAC	0070	3070
	1						
	INRUSH CURRENT (Typ.)	L type	COLD START 75A(twidth=900µs measured at 50% lipeak) at 115VAC				
	(.16.)	Ltypo					
	MAX. No. of PSUs	Blank type	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC				
	on 16A CIRCUIT 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-150:0.25mA / 120VAC				
PROTECTION	OVERLOAD		110 ~ 150% rated output power				
			* .		matically after fault condition	1	
	OVER VOLTAGE		13.5 ~ 18V	17 ~ 25V	27 ~ 35V	40 ~ 49V	52 ~ 63V
			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℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT		$\pm 0.03\%$ °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 STANDARDS	Blank type	UL8750,CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,BIS IS15885(for LPV-150-12,24 only),EAC TP TC 004, IP67, IEC62368-1, BS EN/EN62368-1 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				
		Blank type	e Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2 Class A(≤80% load), BS EN/EN61000-3-3, EAC TP TC C				
	EMC EMISSION	L type	Compliance to FCC part 15				
	EMC IMMUNITY	Blank type					
		L type	Design refer to IEC61000-4-2,3,4,5,6,8,11; light industry level				
	MTBF		3361.2K hrs min. Telcordia SR-332 (Bellcore); 391.9Khrs min. MIL-HDBK-217F (25℃)				
OTHERS	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				
			y mentioned are measured at 230VAC(115VAC for LPVL) input, rated load and 25°C of ambient temperature.				
NOTE	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.						
		•	ed as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the				
	•		l equipment manufacturers must re-qualify EMC Directive on the complete installation again. meanwell.com//Upload/PDF/EMI_statement_en.pdf)				
	•		sured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.				
			tdoor use without direct sunlight exposure.				
			rating of $3.5^{\circ}$ C/1000m with fanless models and of $5^{\circ}$ C/1000m with fan models for operating altitude higher than 2000m(6500ft).				
			IP water proof function installation caution, please refer our user manual before using.				
	•		pload/PDF/LED_EN.pdf				
			for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series				
	are recommend	•	Forders 11.5		(h	Di- d-i	
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LPV-150-48 LPV-150-12 LPV-150-24 LPV-150-15 LPV-150-36