









 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

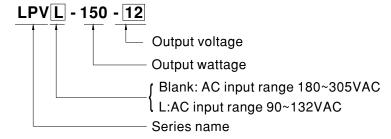
### **■** Features

- · 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	LPV □ -150-24	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				F F	· · · · · · · · · · · · · · · · · · ·	r r	
	LINE REGULATION		±1.0%					
	LOAD REGULATION		±2.0%					
			ELPV-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					
			LPV-150: 180 ~ 305VAC 254 ~ 431VDC; LPVL-150: 90~132VAC					
	FREQUENCY RANGE		47 ~ 63Hz					
	EFFICIENCY (Typ.)		87%	88%	89%	89%	90%	
	AC CURRENT				LPVL-150: 3.0A/115VAC	09 /0	30 /0	
	I=							
	INRUSH CURRENT (Typ.)	L type						
INPUT	(136.)	Ltype	COLD START 75A(twidth=900µs measured at 50% lpeak) at 115VAC					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC					
		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 OVER VOLTAGE		110 ~ 150% rated output power					
			71 1		matically after fault condition	is removed		
			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°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 &	SAFETY STANDARDS Blank type L 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					
			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	EMC EMISSION Blank type		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 020					
	EMC EMISSION	L type	Compliance to FCC part 15					
		Blank type						
	EMC IMMUNITY	L type	Design refer to IEC61000-4-2,3,4,5,6,8,11; light industry level					
OTHERS	MTBF		3361.2K hrs min. Telcordia SR-332 (Bellcore); 391.9Khrs 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	1. All parameters NOT specially mentioned are measured at 230VAC(115VAC for LPVL) input, rated load and 25°C 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.							
	Nipple & Holse are measured at 20Min2 of barrowdum by using a 12 twisted pair-wire terminated with a 0.1th & 47th parallel capacitor.  3. 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.							
	5. The power supply	y is consider	red as a component that	ed as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the				
			I 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					
		-						
			sured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.  door use without direct sunlight exposure.					
			abor use without direct suring it exposure. Taking of $3.5^{\circ}$ 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					
	10. This product is are recommend		for LED lighting luminaire applications in the EU and China.(In the EU and China the LPF/NPF/XLG/XLC/XLN series					
	※ Product Liability	Disclaimer :	For detailed information,	please refer to https:/	//www.meanwell.com/service	Disclaimer.aspx		



