



□ IP67 F© ((or Liype only)) c us (€ ((or Blank type only))

Features

- · Constant voltage design
- 90~132VAC input for LPVL-150 180~305VAC 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 I, Division 2 hazardous (Classified) location luminaires for LPVL-150
- · 2 years warranty

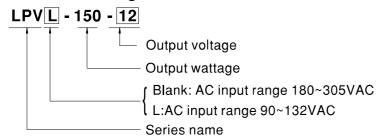
Applications

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

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

OUTPUT	RATED POWER		12V 10A	15V	24V	36V	48V
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OUTPUT	RATED POWER		IUA	8A	6.3A	4.2A	3.2A
ОИТРИТ		CURRENT RANGE		0 ~ 8A	0 ~ 6.3A	0 ~ 4.2A	0 ~ 3.2A
OUTPUT	RIPPLE & NOISE (n	RATED POWER		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		±5.0%				
	LINE REGULATION		±1.0%				
	LOAD REGULATION		±2.0%				
	· · · · · · · · · · · · · · · · · · ·		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				
INPUT			LPV-150: 180 ~ 305VAC 254 ~ 431VDC; LPVL-150: 90~132VAC 254 ~ 370VDC				
	FREQUENCY RANGE		47 ~ 63Hz				
	EFFICIENCY (Typ.)		87%	88%	89%	89%	90%
	AC CURRENT		LPV-150: 1.7A/230VAC 1.5A/277VAC; LPVL-150: 3.0A/115VAC				
		Blank type					
	(Тур.)	L type	COLD START 75A(twidth=900µs measured at 50% Ipeak) at 115VAC				
	MAX. No. of PSUs	Blank type	2 units (circuit breaker of type B) / 3 units (circuit breaker of type C) at 230VAC				
I	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				
			Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	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°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	Blank type	UL8750,CSA C22.2 No 250.13-12,UL879,CSA C22.2 No.207-M89,IP67 approved. Design refer to EN60950-1				
	STANDARDS	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	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				
		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)				
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 Illy mentioned are measured at 230VAC(115VAC for LPVL) input, rated load and 25°C of ambient temperature.				
NOTE	Ripple & noise a Tolerance : inclu Derating may be The power suppromplete installa Length of set up The unit might r	are measure udes set up e needed ur oly is consid ation, the fin o time is me not be suitat	ed at 20MHz of bandwi tolerance, line regulation nder low input voltage. ered as a component to lal equipment manufact asured at first cold star	ofth by using a 12" twing and load regulation and load regulation Please check the stat hat will be operated in turers must re-qualify the Turning ON/OFF thous in EU countries. P	sted pair-wire terminated wit i. ic characteristics for more de	h a 0.1uf & 47uf paralle etails. oment. Since EMC perfo ete installation again. increase of the set up t	ormance will be affected by thime.



