









Features

- Constant Voltage + Constant Current mode output
- · Plastic housing with Class II design
- Built-in active PFC function
- Class 2 power unit
- · Fully encapsulated with IP67 level
- Typical lifetime>50000 hours
- 5 years warranty

Applications

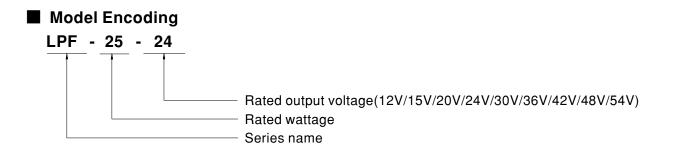
- LED panel lighting
- · LED downlight
- LED decorative lighting
- LED tunnel lighting
- Moving sign

GTIN CODE

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

Description

LPF-25 series is a 25W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-25 operates from 90~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the efficiency up to 87%, with the fanless design, the entire series is able to operate for $-35^{\circ}C \sim +70^{\circ}C$ case temperature under free air convection. The entire series is rated with IP67 ingress protection level and is suitable to work for a variety of applications at dry, damp or wet locations.





25W Constant Voltage + Constant Current LED Driver

LPF-25 series

SPECIFICATION

	1					1				1
MODEL		LPF-25-12	LPF-25-15	LPF-25-20	LPF-25-24	LPF-25-30	LPF-25-36	LPF-25-42	LPF-25-48	LPF-25-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
OUTPUT	CONSTANT CURRENT REGION Note.2	6.6~12V	8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4~48V	29.7 ~ 54V
	RATED CURRENT	2.1A	1.67A	1.25A	1.05A	0.84A	0.7A	0.6A	0.53A	0.47A
	RATED POWER Note.5	25.2W	25.05W	25W	25.2W	25.2W	25.2W	25.2W	25.44W	25.38W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p
	VOLTAGE TOLERANCE Note.4		±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
		±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION					10.576	10.070	10.070	10.576	10.5%
	SETUP, RISE TIME Note.6	1500ms, 80ms / 115VAC 500ms, 80ms / 230VAC								
	HOLD UP TIME (Typ.)	16ms/115VAC 16ms/230VAC								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
		(Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR	$\label{eq:pressure} \begin{split} PF &\geq 0.97/115 VAC, PF &\geq 0.95/230 VAC, PF &\geq 0.92/277 VAC @ full \ load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \end{split}$								
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)								
	EFFICIENCY (Typ.)	84%	85%	86%	86%	86%	86%	86%	87%	86.5%
	AC CURRENT	0.4A / 115VA			00%	0070	0070	0070	0.70	00.070
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=200µs measured at 50% lpeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A	12 units (circuit breaker of type B) / 21 units (circuit breaker of type C) at 230VAC								
	CIRCUIT BREAKER									
	LEAKAGE CURRENT	<0.75mA/24	IUVAC							
PROTECTION	OVER CURRENT 95 ~ 108%									
		Constant curr	rent limiting, red	covers automat	ically after fault	condition is rer	moved			
	SHORT CIRCUIT		, recovers auto	omatically after	fault conditior	is removed				
		15~18V	17.5~21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59~66V
	OVER VOLTAGE	Shut down ar	nd latch off o/p	voltage, re-pov	wer on to recov	ver				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down								
ENVIRONMENT	WORKING TEMP.	Tcase=-35 ~ +70°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+70°C								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION									
	VIDRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750, CSA C22.2 No. 250.0-08; ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384,								
		J61347-1,J61347-2-13,EAC TP TC 004,GB19510.1,GB19510.14,IP67 approved ;Design refer to UL60950-1								
		I/P-O/P:3.75KVAC I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH								
	ISOLATION RESISTANCE			-					10 OD 1 - 00	
	EMC EMISSION Note.8						; BS EN/EN610			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11; BS EN/EN61547, light industry level (surge immunity Line-Line 2KV), EAC TP TC 02								
OTHERS	MTBF	3574.2K hrs min. Telcordia SR-332 (Bellcore); 391.6Khrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	148*40*32mm (L*W*H)								
	PACKING	0.36Kg; 40pc	s/ 15.4Kg/1.02	2CUFT						
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Please refer to "DRIVING METHODS OF LED MODULE". 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. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. The driver 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. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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(6500f 12. 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 									

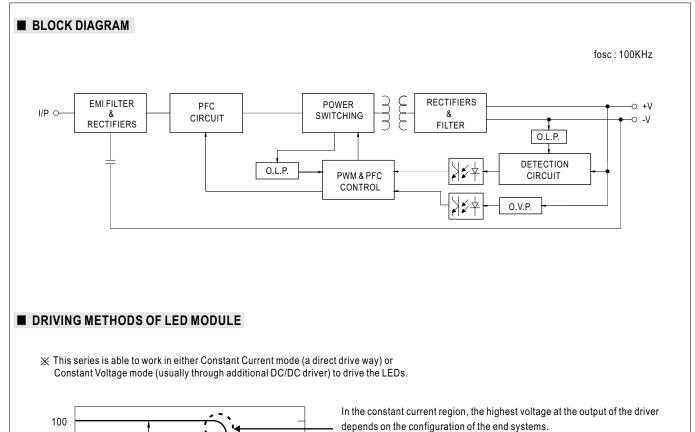


Vo(%)

50 (min.) (B)

Constant – Current area

lo(%)



Should there be any compatibility issues, please contact MEAN WELL.

Typical output current normalized by rated current (%)

(C)
 Hiccup
 Protection

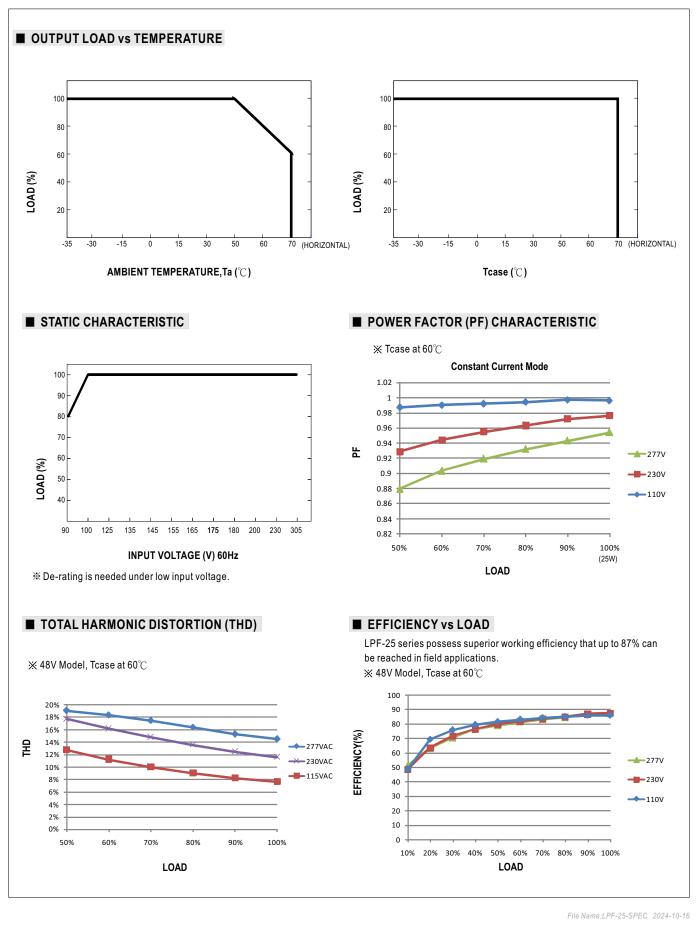
100

(A) Constant

Voltage area

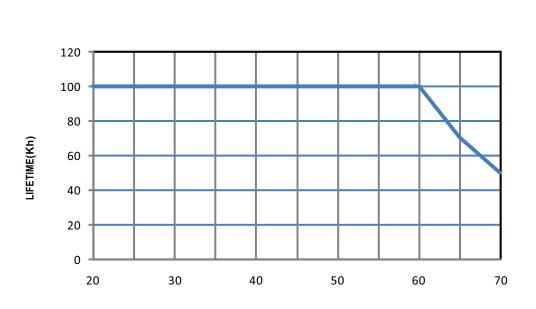
50







■ LIFE TIME



Tcase (°C)



