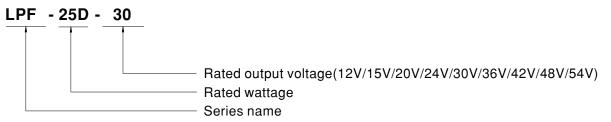


Description

LPF-25D series is a 25W AC/DC LED driver featuring the constant current output. LPF-25D operates from $90 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the efficiency up to 86%, with the fanless design, the entire series is able to operate for -35° 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. LPF-25D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

Model Encoding



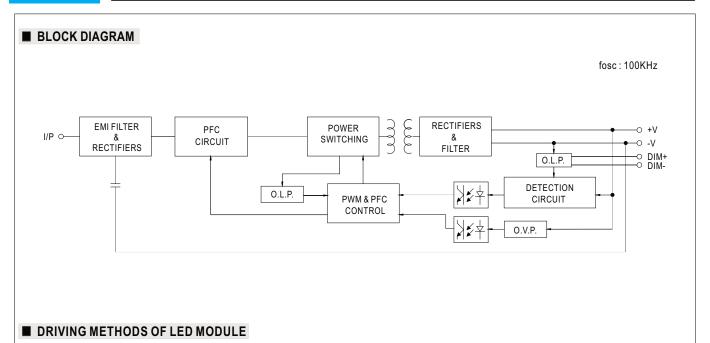
25W Constant Current Mode LED Driver

LPF-25D series

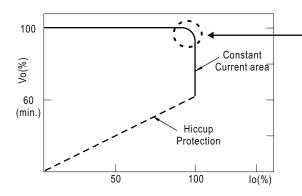
SPECIFICATION

MODEL		LPF-25D-12	LPF-25D-15	LPF-25D-20	LPF-25D-24	LPF-25D-30	LPF-25D-36	LPF-25D-42	LPF-25D-48	LPF-25D-5		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
OUTPUT	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		
	CONSTANT CURRENT REGION Note.2	-	8.25 ~ 15V	11~20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4~48V	29.7 ~ 54V		
	CURRENT RIPPLE	5.0% max. @			1				1			
	CURRENT TOLERANCE	±5.0%										
	SETUP, RISE TIME Note.6	1500ms, 80ms / 115VAC 500ms, 80ms / 230VAC										
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC										
		90 ~ 305VAC 127 ~ 431VDC										
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)										
	FREQUENCY RANGE	47 ~ 63Hz										
		$PF \ge 0.97/115 VAC, PF \ge 0.95/230 VAC, PF \ge 0.92/277 VAC$ @full load										
	POWER FACTOR	(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)										
	EFFICIENCY (Typ.)	84%	84%	85%	85.5%	85.5%	85.5%	85.5%	86%	86%		
	AC CURRENT	0.4A / 115VA).2A/277VAC		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	ישבעט איז										
	CIRCUIT BREAKER	12 units (circuit breaker of type B) / 21 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA / 240VAC										
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT				fault condition							
	OVER VOLTAGE	15 ~ 18V	17.5~21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59~66V		
		Shut down and latch off o/p voltage, re-power on to recover										
	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	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes										
	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, EAC TP TC 004,GB19510.1,GB19510.14,IP67 approved ;Design refer to UL60950-1										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH										
	EMC EMISSION Note.8	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 55%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 02										
	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 020										
	MTBF	3574.2K hrs min. Telcordia SR-332 (Bellcore); 391.6Khrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	148*40*32mm (L*W*H)										
	PACKING	0.36Kg; 40pcs/ 15.4Kg/1.02CUFT										
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.											
	2. 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. 											
	 Folerance : 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. 											
	6. 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.											
	7. 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.											
	8. 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.											
	9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70°C or less.											
	10. Flease reler to the warrant	the warranty statement on MEAN WELL's website at http://www.meanwell.com mperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500fi										
	11 The ambient temperature of	perating of 3 5	(/)()()()m w)m	and IP water proof function installation caution, please refer our user manual before using.								
		-					-	-	e nigher than 2	2000111(0000		
		nd IP water pro	of function ins				-	-	e nigner (nan 2	200011(0300		

LPF-25D series



% This series works in constant current mode to directly drive the LEDs.

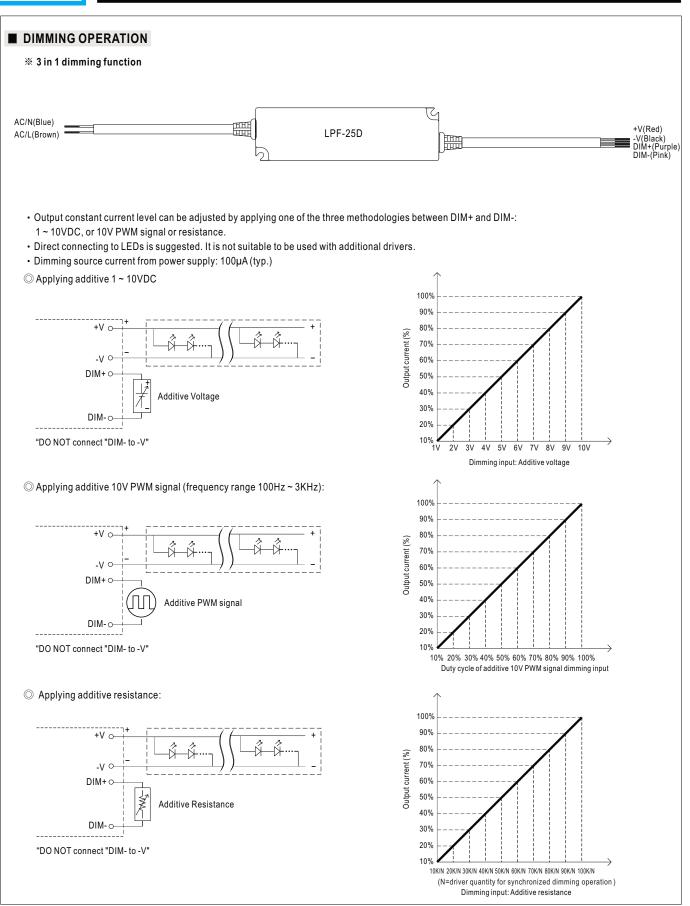


Typical output current normalized by rated current (%)

In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

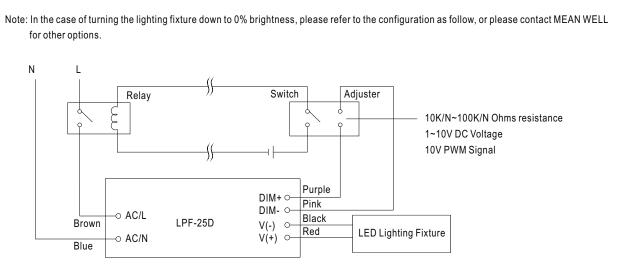
LPF-25D series



File Name:LPF-25D-SPEC 2022-02-18

25W Constant Current Mode LED Driver

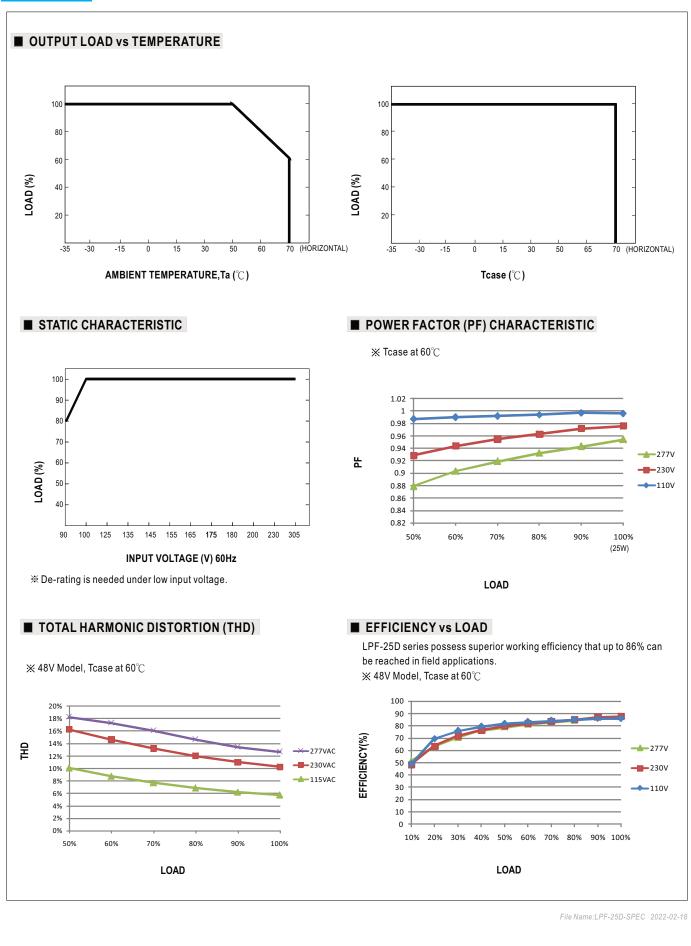
LPF-25D series



Using a switch and relay can turn ON/OFF the lighting fixture.

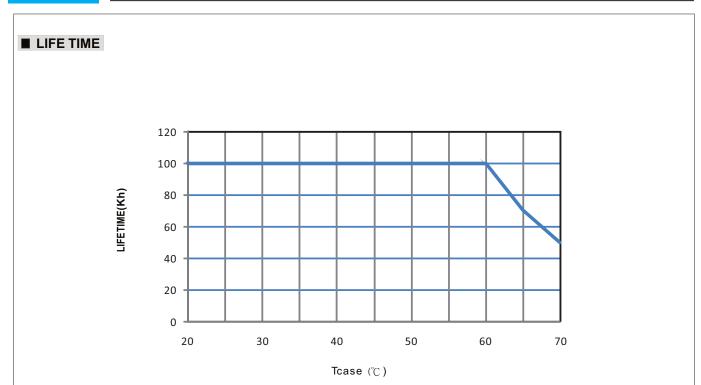


LPF-25D series



25W Constant Current Mode LED Driver

LPF-25D series



25W Constant Current Mode LED Driver

LPF-25D series

