







Features

- Constant Current mode output
- Plastic housing with Class II design
- Built-in active PFC function
- Class 2 power unit
- IP67 rating for indoor or outdoor installations
- Function: 3 in 1 dimming
- Typical lifetime>50000 hours
- 5 years warranty

Applications

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

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





SPECIFICATION

		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-54					
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	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					
	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					
	CURRENT RIPPLE	5.0% max. @rated current													
	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													
		$PF \ge 0.97/115VAC, PF \ge 0.95/230VAC, PF \ge 0.92/277VAC@full load$													
	POWER FACTOR	$ P \ge 0.977115VAC, P \ge 0.957230VAC, P \ge 0.927277VAC@IUII10000$ (P ease 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			00.070 .2A/277VAC	00.070	00.070	00.070	0070	0070					
	INRUSH CURRENT(Typ.)	0.4A / 115VAC 0.25A / 230VAC 0.2A/277VAC COLD START 50A(twidth=200µs measured at 50% lpeak) at 230VAC; Per NEMA 410													
	MAX. No. of PSUs on 16A	COLD STAINT SUALIWIULI-2004S IIIEASUIEU AL SU /0 IPEAN) AL 250 VAC; PEI NEIMA 410													
	CIRCUIT BREAKER	12 units (circuit breaker of type B) / 21 units (circuit breaker of type C) at 230VAC													
	LEAKAGE CURRENT														
	LEARAGE CURRENT	<0.75mA / 240VAC													
	OVER CURRENT	95 ~ 108%													
		Constant current limiting, recovers automatically after fault condition is removed													
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.													
	OVER VOLTAGE	15 ~ 18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59~66V					
				voltage, re-po											
	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℃													
	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, 5	G 12min./1cyd	cle, period for	72min. each al	ong X, Y, Z axe	S								
	SAFETY STANDARDS Note.8	UL8750, CSA C22.2 No. 250.0-08, ENEC EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13,													
	SAFETT STANDARDS Note.o	EAC TP TC 004, GB19510.1, GB19510.14, IP67 approved ; Design refer to UL60950-1, TUV EN60950-1													
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 EN55015,EN61000-3-2 Class C (@load≧55%) ; EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020													
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV),EAC TP TC 020													
OTHERS	MTBF	1190.8K hrs min. Telcordia SR-332 (Bellcore); 418.5Khrs min. MIL-HDBK-217F (25°C)													
	DIMENSION	148*40*32mm (L*W*H)													
OTHERS		0.36Kg; 40pcs/ 15.4Kg/1.02CUFT													
OTHERS	PACKING	0.36Kg; 40pc		1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.											
			•	at 230VAC inp	ut, rated curre		2. Please refer to "DRIVING METHODS OF LED MODULE".								
	1. All parameters NOT special	y mentioned a	re measured a		ut, rated curre										
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% 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.





File Name:LPF-25D-SPEC 2020-02-21



25W Constant Current Mode LED Driver

LPF-25D series

Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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







■ LIFE TIME





