









Features

- Constant Current mode output
- Plastic housing with Class II design
- Built-in active PFC function
- Class 2 power unit
- Standard type with IP30 level, optional IP67 with fully encapsulated
- Function: 3 in 1 dimming
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- LED downlight
- LED spotlight
- LED decorative lighting
- LED tunnel lighting

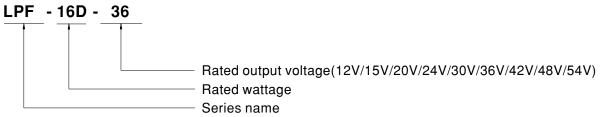
GTIN CODE

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

Description

LPF-16D series is a 16W AC/DC LED driver featuring the constant current output. LPF-16D operates from $90 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the efficiency up to 85%, 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 suitable to work for a variety of applications at dry or damp and the optional models with IP67 rating is able to further work at wet locations. LPF-16D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

Model Encoding

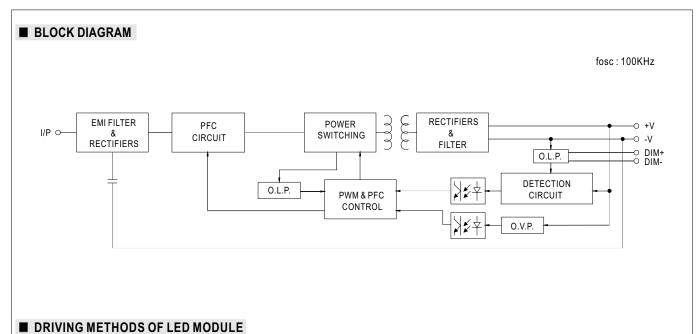




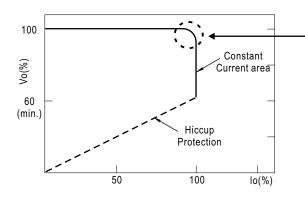
SPECIFICATION

MODEL		LPF-16D-12	LPF-16D-15	LPF-16D-20	LPF-16D-24	LPF-16D-30	LPF-16D-36	LPF-16D-42	LPF-16D-48	LPF-16D-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	RATED CURRENT	1.34A	1.07A	0.8A	0.67A	0.54A	0.45A	0.39A	0.34A	0.3A	
	RATED POWER Note.5	16.08W	16.05W	16W	16.08W	16.2W	16.2W	16.38W	16.32W	16.2W	
	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	0.0 ~12 V 8.25 ~ 15 V 11 ~ 20 V 13.2 ~ 24 V 16.5 ~ 30 V 19.0 ~ 36 V 23.1 ~ 42 V 26.4 ~ 48 V 29.7 ~ 54 V 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									
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR	$PF \ge 0.97/115VAC$, $PF \ge 0.95/230VAC$, $PF \ge 0.92/277VAC@$ full load (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)									
		83%	83%	84.5%		84.5%	0.50/	85%	85%	84.5%	
	EFFICIENCY (Typ.)			1	84.5%	04.3%	85%	00 /0	00 /0	04.3%	
		0.4A / 115VA			0.2A/277VAC						
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=200µs measured at 50% Ipeak) at 230VAC; Per NEMA 410									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	14 units (circuit breaker of type B) / 24 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/24	0VAC								
PROTECTION		95~108%									
	OVER CURRENT		ont limiting roc	overs automati	cally after fault	condition is rom	avad				
	SHORT CIRCUIT			matically after			loved				
	SHORT CIRCUIT	· ·					44 401/	AC EAV	E4 001/	50 001/	
	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/	o voltage, reco	vers automatic	ally after tempe	erature goes do	own				
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										
		$\pm 0.03\%^{\circ}$ C (0 ~ 50°C)									
SAFETY & EMC	VIBRATION SAFETY STANDARDS Note.8	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes 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 (B19510 1 GB19510 14 approved UB67(aptional); Design refer to UI 60950-1									
		EAC TP TC 004,GB19510.1,GB19510.14 approved, IP67(optional); Design refer to UL60950-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
	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 \geq 55%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020									
	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	3572.8K hrs min. Telcordia SR-332 (Bellcore); 391.6Khrs min. MIL-HDBK-217F (25℃)									
OTHERS	DIMENSION	148*40*32mm (L*W*H)									
	PACKING	0.21Kg;40pcs/9.4Kg/ 1.02CUFT									
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. 										
	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.										
	 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. 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 (t) point (or TMP, per DLC), is about 70°C or less. 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 11. 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(6500) 										
					•		models for op	erating altitude	e higher than 2	000m(6500f	
		derating of 3.5° nd IP water pro	C/1000m with of function ins	fanless model	s and of 5°C/1	000m with fan		•	e higher than 2	000m(6500t	





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

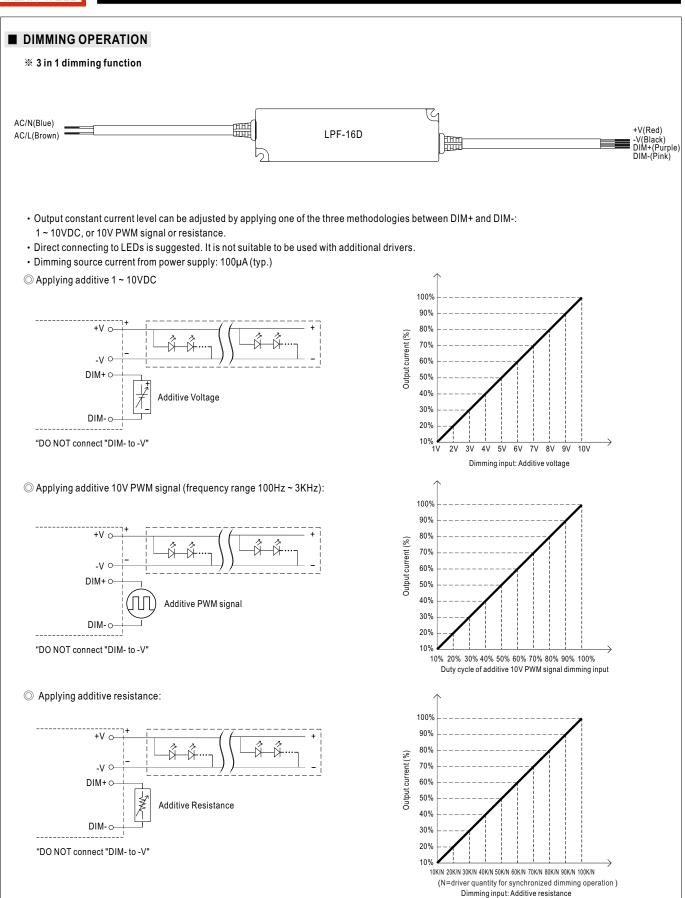


Typical output current normalized by rated current (%)

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.





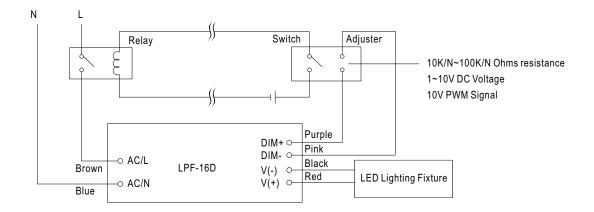
File Name:LPF-16D-SPEC 2022-02-18



16W Constant Current Mode LED Driver

LPF-16D series

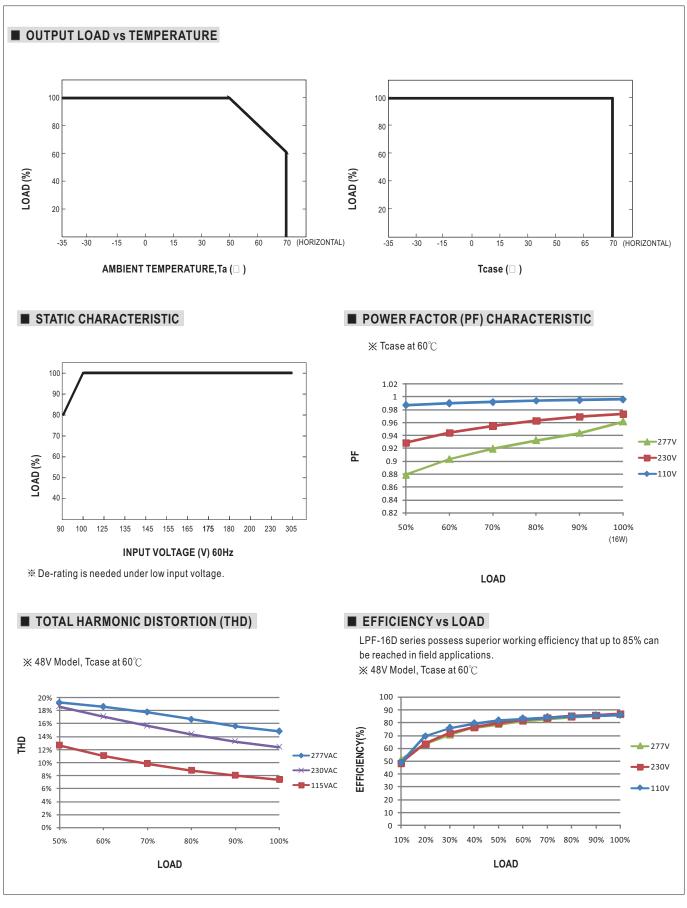
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



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

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LIFE TIME

