









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

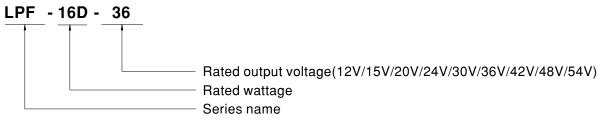
GTIN CODE

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

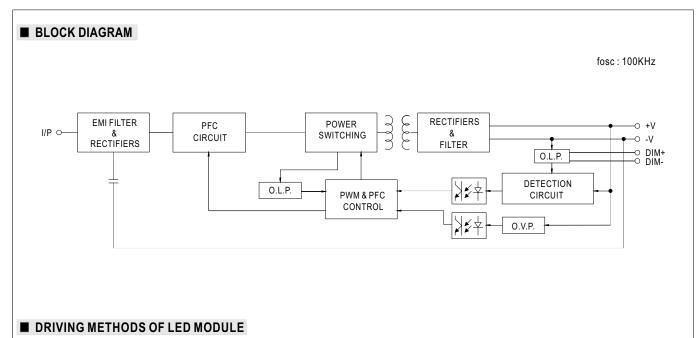




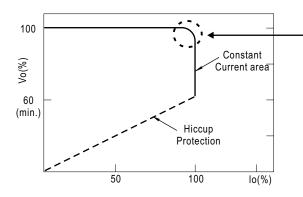
SPECIFICATION

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	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≧0.97/115VAC, PF≧0.95/230VAC, PF≧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)									
	EFFICIENCY (Typ.)	83%	83%	84.5%	84.5%	84.5%	85%	85%	85%	84.5%	
	AC CURRENT	0.4A / 115VA			0.2A/277VAC		50,0				
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=200µs measured at 50% lpeak) at 230VAC; Per NEMA 410									
	MAX. No. of PSUs on 16A	14 units (circuit breaker of type B) / 24 units (circuit breaker of type C) at 230VAC									
	CIRCUIT BREAKER										
	LEAKAGE CURRENT	<0.75mA / 240VAC									
PROTECTION	95~108%										
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition 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									
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover 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℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 2G 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, EAC TP TC 004,GB19510.1,GB19510.14 approved, IP67(optional); Design refer to UL60950-1									
	WITHSTAND VOLTAGE	I/P-0/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 ≥ 55%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020									
	EMC IMMUNITY										
	MTBF	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									
OTHERS		3572.8K hrs min. Telcordia SR-332 (Bellcore); 391.6Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	148*40*32mm (L*W*H)									
	PACKING	0.21Kg;40pcs/9.4Kg/ 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".										
	3. 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. Deviating may be peeded under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 										
	5. 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 (tc) 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 c	ne ambient temperature derating of $3.5^{\circ}C/1000$ m with fanless models and of $5^{\circ}C/1000$ m with fan models for operating altitude higher than 2000m(6500ft) or any application note and IP water proof function installation caution, please refer our user manual before using.									
		-		tallation cautio	n, please refer	our user man	ual before usir	ıg.			
	12. For any application note an https://www.meanwell.com/	-		tallation cautio	n, please refer	our user man	ual before usir	ıg.			





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

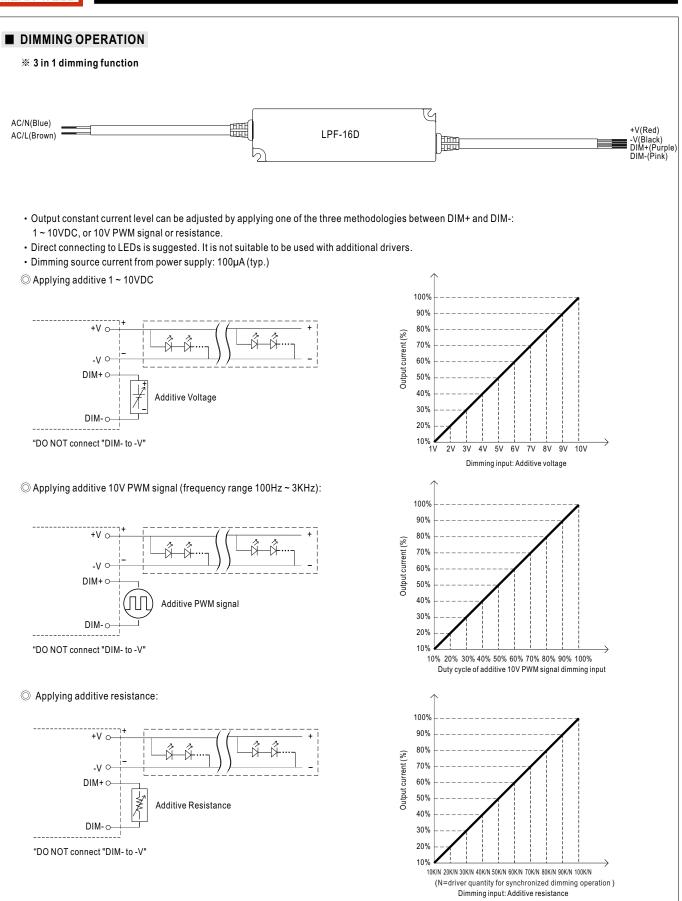


Typical output current normalized by rated current (%)

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.





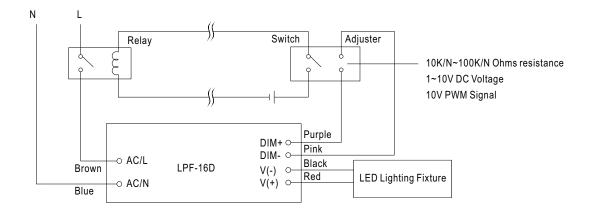
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16W Constant Current Mode LED Driver

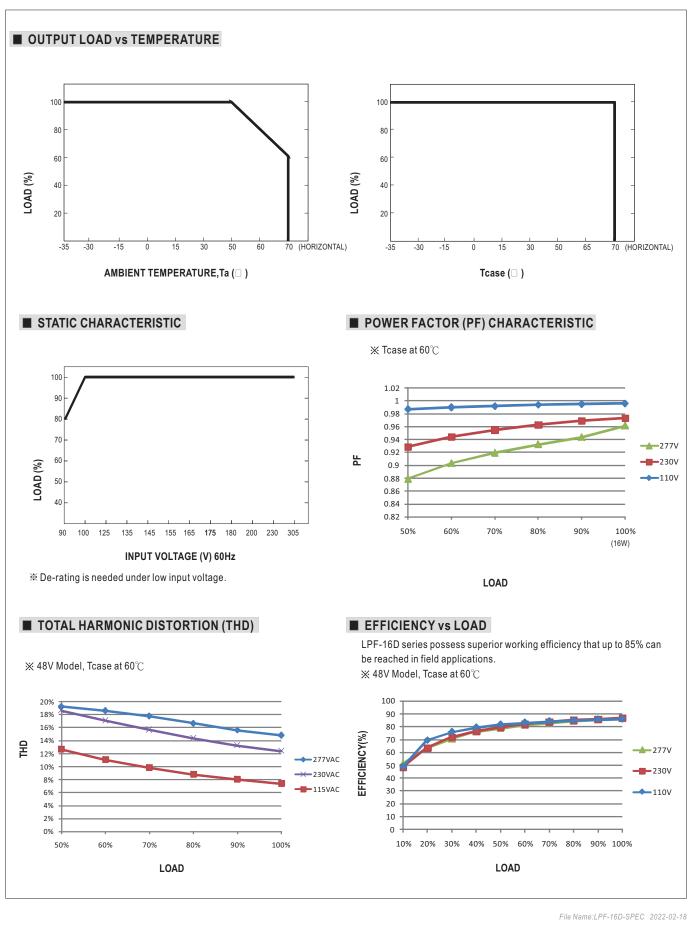
LPF-16D series

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.







LIFE TIME

