

Наличие и актуальные цены на

LPF-16D-12

https://www.mean-well.ru/store/LPF-16D-12/











■ 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

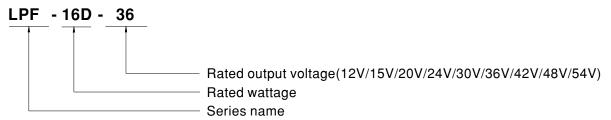
■ GTIN CODE

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 $90\sim305$ 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



16W Constant Current Mode LED Driver

LPF-16D series

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
OUTPUT	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
	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	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								
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)								
INPUT	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	0.25A/	230VAC	0.2A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START	45A(twidth=2	!00μs measure	d at 50% Ipeak) at 230VAC; P	er 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 / 240VAC								
PROTECTION	OVED OUDDENT									
	OVER CURRENT Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.								
	OVERVOLTAGE	15 ~ 18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V
	OVER VOLTAGE	Shut down ar	d latch off o/p	voltage, re-po	ower on to reco	over				
	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, 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-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 ≥ 55%) ; BS EN/EN61000-3-3,GB/T 17743 , GB17625.1, EAC TP TC 020								
	EMC IMMUNITY	Compliance to	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	3572.8K hrs min. Telcordia SR-332 (Bellcore); 391.6Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	148*40*32mm		,	, .			, ,		
	PACKING	0.21Kg;40pcs/9.4Kg/ 1.02CUFT								
NOTE	All parameters NOT speciall Please refer to "DRIVING M Ripple & noise are measure	y mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.								

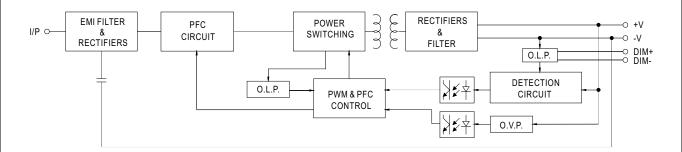
- 5. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
- 6. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 7. The driver is considered as a component that will be 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.

 (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)
- 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. 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(6500ft).
- 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
- ** Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



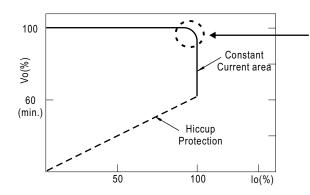
■ BLOCK DIAGRAM

fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

* 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.

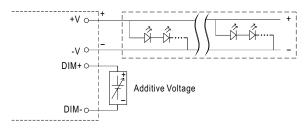


■ DIMMING OPERATION

 \divideontimes 3 in 1 dimming function

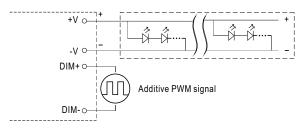


- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM-:
 1 ~ 10VDC, or 10V PWM signal or resistance.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 1 ~ 10VDC



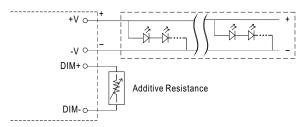
"DO NOT connect "DIM- to -V"

O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

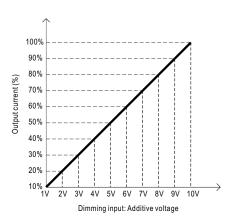


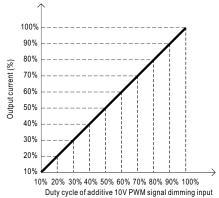
"DO NOT connect "DIM- to -V"

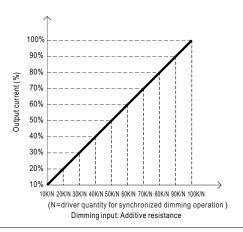
Applying additive resistance:



"DO NOT connect "DIM- to -V"

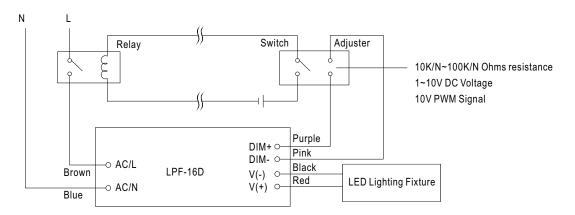






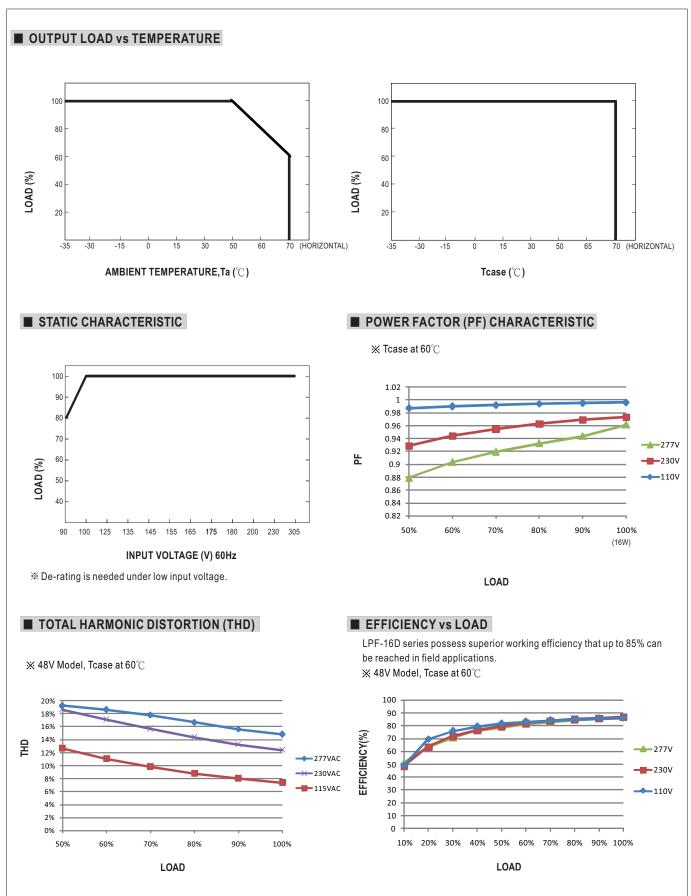


Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



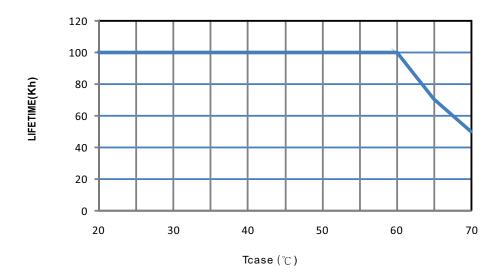
Using a switch and relay can turn ON/OFF the lighting fixture.







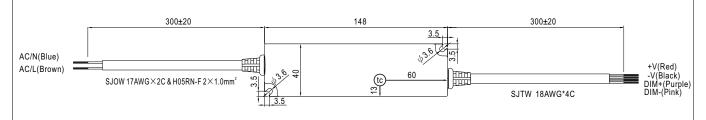
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-16A Unit:mm Tolerance:±1



• (tc) : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

Please refer to: http://www.meanwell.com/manual.html