

Наличие и актуальные цены на

## LPF-60D-42

https://www.mean-well.ru/store/LPF-60D-42/









#### 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

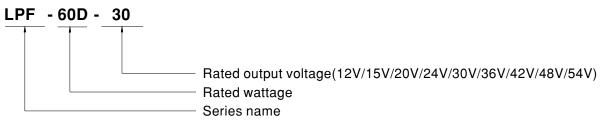
#### GTIN CODE

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

#### Description

LPF-60D series is a 60W AC/DC LED driver featuring the constant current output. LPF-60D operates from  $90 \sim 305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for  $-40^{\circ}$ C  $\sim +80^{\circ}$ 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-60D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

#### Model Encoding

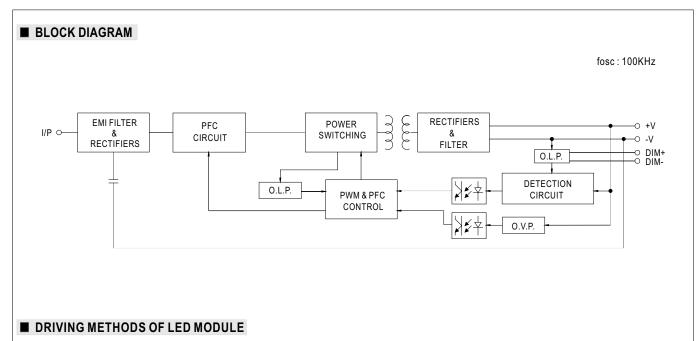




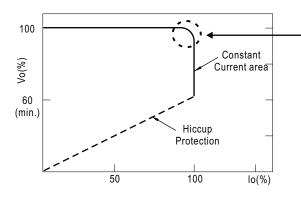
#### SPECIFICATION

MODEL		LPF-60D-12	LPF-60D-15	LPF-60D-20	LPF-60D-24	LPF-60D-30	LPF-60D-36	LPF-60D-42	LPF-60D-48	LPF-60D-54	
-	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	RATED CURRENT	5A	4A	3A	2.5A	2A	1.67A	1.43A	1.25A	1.12A	
	RATED POWER Note.5	60W	60W	60W	60W	60W	60.12W	60.06W	60W	60.48W	
	CONSTANT CURRENT REGION Note.2							25.2 ~ 42V			
	CURRENT RIPPLE	5.0% max. @rated current									
	CURRENT TOLERANCE										
	SETUP, RISE TIME Note.6	1000ms, 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) 47 ~ 63Hz									
	FREQUENCY RANGE										
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)									
		THD<20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC)									
	TOTAL HARMONIC DISTORTION	(Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)									
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%	
	AC CURRENT	0.8A / 115VA			.32A/277VAC						
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=270us measured at 50% lpeak) at 230VAC; Per NEMA 410									
	MAX. No. of PSUs on 16A										
	CIRCUIT BREAKER	8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 240VAC									
		95~108%									
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT			matically after							
		15 ~ 17V	17.5~21V	23~27V	28 ~ 35V	34 ~ 40V	41~49V	46~54V	54 ~ 63V	59~66V	
	OVER VOLTAGE										
	OVER TEMPERATURE	Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.										
	MAX. CASE TEMP.	Tcase=-40 ~ +80°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)									
		Tcase=+80°C									
		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 & 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, IP67, GB19510.1, GB19510.14 approved ; 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≧60%) ; BS EN/EN61000-3-3, GB/T 17743 , 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 02									
OTHERS		3614.1K hrs min. Telcordia SR-332 (Bellcore); 396.7Khrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	162.5*43*32mm (L*W*H)									
	PACKING	0.45Kg; 32pcs/15.4Kg/0.93CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.										
	<ol> <li>Please refer to "DRIVING METHODS OF LED MODULE".</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> </ol>										
	<ol> <li>Ripple &amp; noise are measured at 2000H2 of bandwidth by using a 12 twisted pair-wire terminated with a 0.101 &amp; 4701 parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> </ol>										
	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.										
		e 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.									
	<ul> <li>(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)</li> <li>8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch</li> </ul>										
	without permanently connected to the mains.										
	9. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less.										
		Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com									
		emperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft)									
		and IP water proof function installation caution, please refer our user manual before using.									
		/Upload/PDF/LED_EN.pdf									
	Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										





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

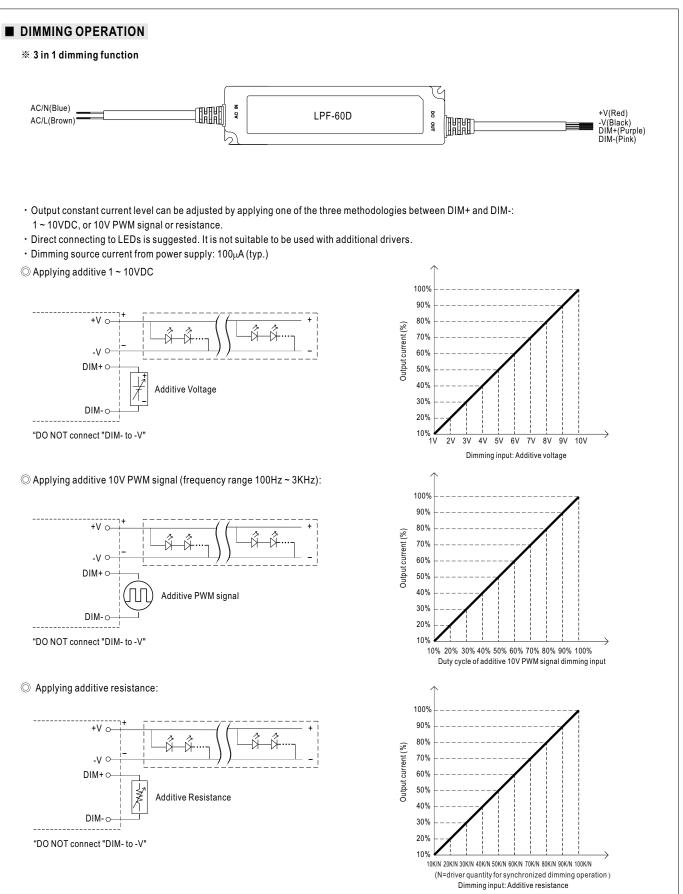


Typical output current normalized by rated current (%)

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.



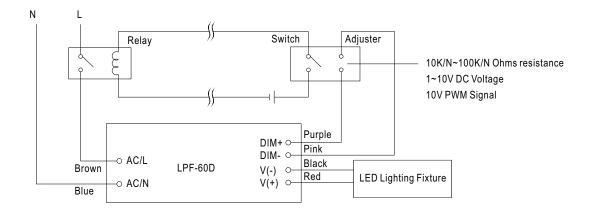




### 60W Constant Current Mode LED Driver

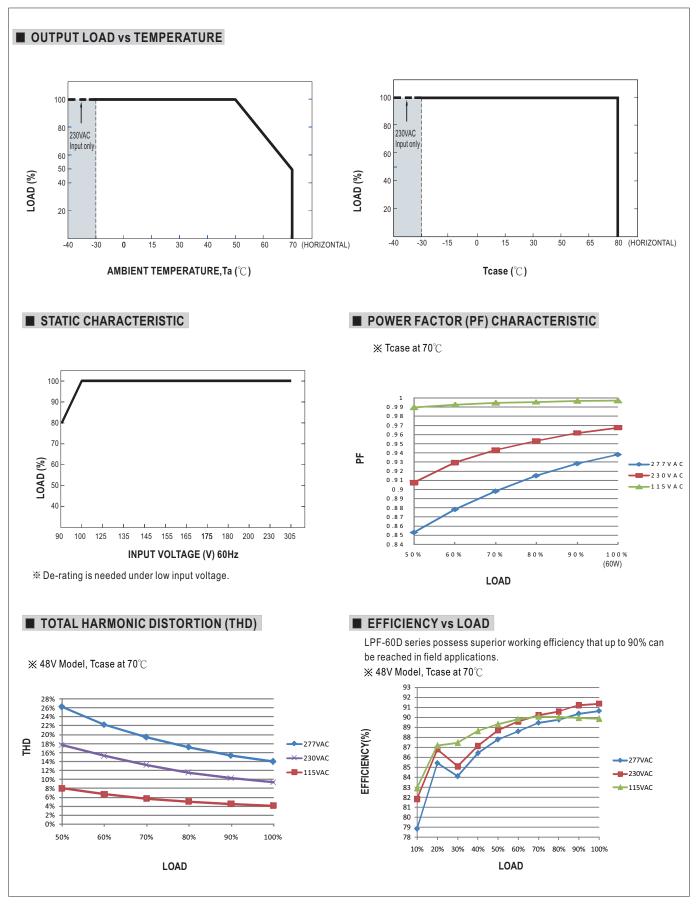
# LPF-60D series

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.



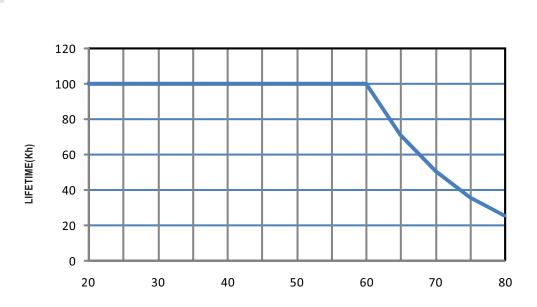




### 60W Constant Current Mode LED Driver

# LPF-60D series

LIFE TIME



Tcase ( $^\circ\! C$ )



