



# MEAN WELL LPF-60 Constant Voltage Constant Current LED Driver User Guide

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**MEAN WELL LPF-60 Constant Voltage, Constant Current LED Driver**



## Product Usage Instructions

### Installation

1. Ensure power is switched off before installation.
2. Connect the LED driver to the power supply following the correct polarity.
3. Securely mount the LED driver in a well-ventilated area to prevent overheating.

### Operation

1. Apply power to the LED driver within the specified voltage range.
2. Connect the LED load to the driver according to the constant current region for optimal performance.

### Maintenance

1. Regularly inspect the LED driver for any signs of damage or overheating.
2. Clean the driver's exterior with a dry cloth to prevent dust accumulation.

## Frequently Asked Questions

### Q: Can I connect multiple LED loads to one driver?

**A:** It is recommended to follow the maximum number of PSUs specified for your circuit breaker type to avoid overloading.

### Q: What should I do if the LED driver exceeds the specified ripple & noise levels?

**A:** Check the connections and ensure proper grounding to reduce noise interference.

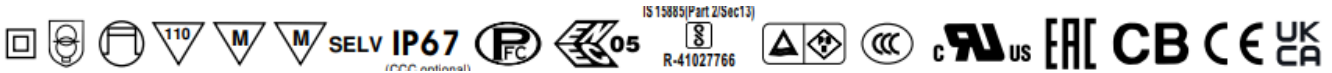
### Q: How can I determine the correct constant current region for my LED load?

**A:** Refer to the user manual or contact technical support for assistance in selecting the appropriate constant

current region for your specific LED load.

## Features

- Constant Voltage + Constant Current mode output
- Plastic housing with Class II design
- Built-in active PFC function
- Class 2 power unit
- Fully encapsulated with P67 level
- Typical lifetime>50000 hours
- 5 years warranty



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

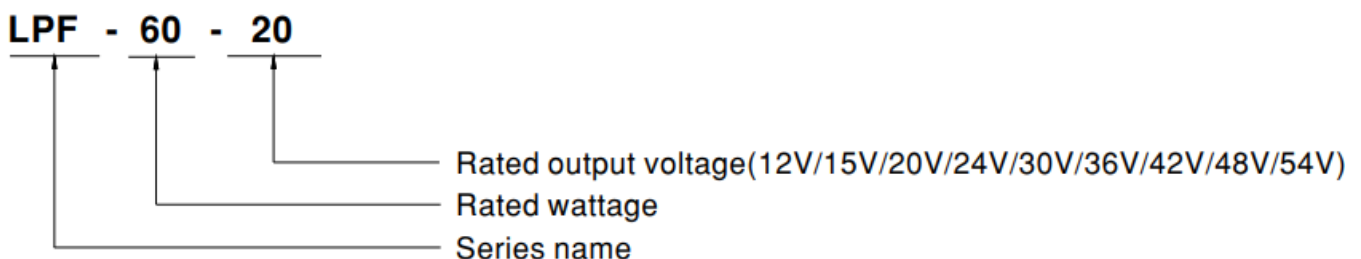
## GTIN CODE

- MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## Description

- LPF-60 series is a 60W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-60 operates from 90 ~ 305VAC 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°C ~ +80°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.

## Model Encoding



## SPECIFICATION



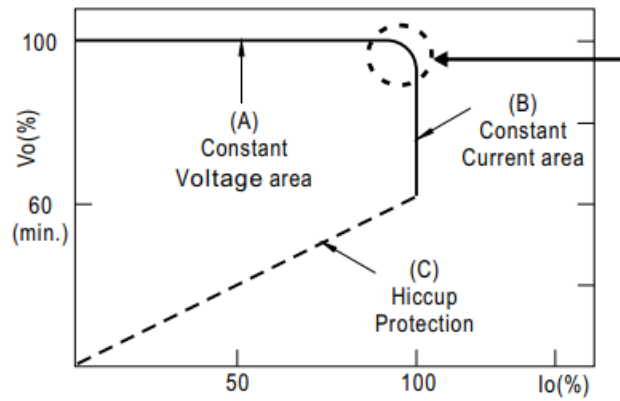


SAFE TY & EMC	<b>SAFETY STANDARDS Note.8</b>	UL8750, CSA C22.2 No. 250.0-08, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, IP67, J61347-1, J61347-2-13, BIS IS15885(for 24V only), EAC TP TC 004,GB19510.1,GB19510.14 approved ; design refer to UL 60950-1
	<b>WITHSTAND VOLTAGE</b>	I/P-O/P:3.75KVAC
	<b>ISOLATION RESISTANCE</b>	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH
	<b>EMC EMISSION Note.8</b>	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load $\geq$ 60%) ; BS EN/EN61000-3-3, GB/T 17743 , GB17625.1, EAC TP TC 020
	<b>EMC IMMUNITY</b>	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	<b>MTBF</b>	3786.9K hrs min. Telcordia SR-332 (Bellcore) ; 440.6Khrs min. MIL-HDB K-217F (25°C)
	<b>DIMENSION</b>	162.5*43*32mm (L*W*H)
	<b>PACKING</b>	0.45Kg; 32pcs/15.4Kg/0.93CUFT

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.
4. Tolerance : includes set up tolerance, line regulation and load regulation.
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](https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf))

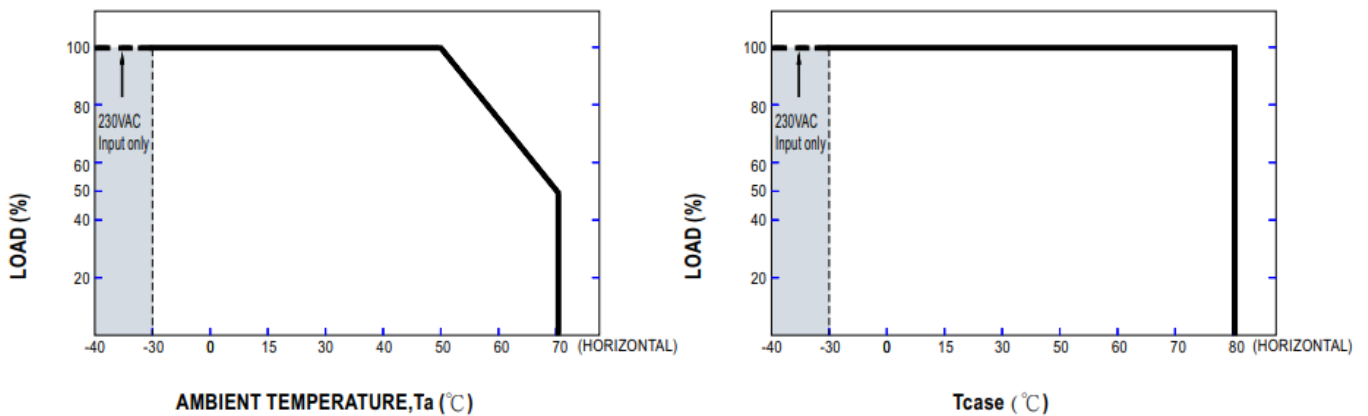
- This series can work in either Constant Current mode (a direct driveway) or Constant Voltage mode (usually through an additional DC/DC driver) to drive the LEDs.



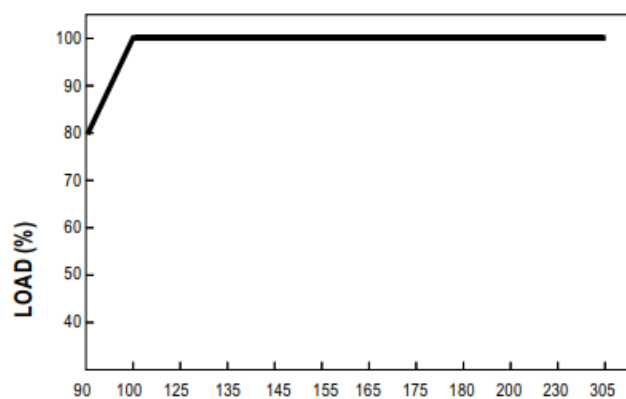
Typical output current normalized by rated current (%)

- 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.

## OUTPUT LOAD vs TEMPERATURE



## STATIC CHARACTERISTIC



## INPUT VOLTAGE (V) 60Hz

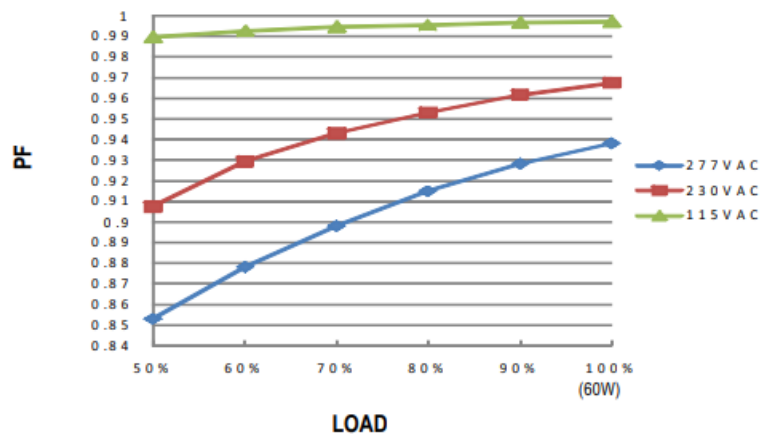
- De-rating is needed under low input voltage.

## POWER FACTOR (PF) CHARACTERISTIC

$T_{case}$  at 70°C

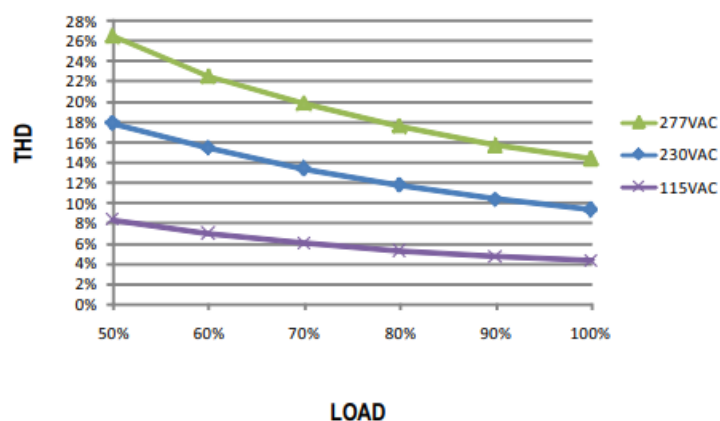


## Constant Current Mode



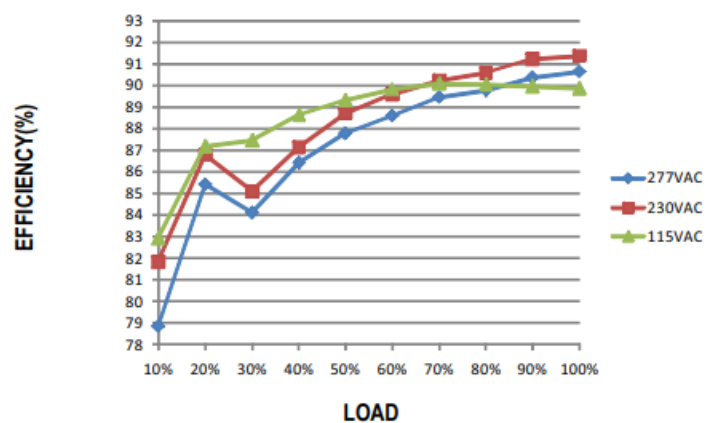
## TOTAL HARMONIC DISTORTION (THD)

48V Model, Tcase at 70°C



## EFFICIENCY vs LOAD

- LPF-60 series possess superior working efficiency that up to 90% can be reached in field applications.
- 48V Model, Tcase at 70°C



## LIFETIME





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LPF-60 Constant Voltage Constant Current LED Driver, LPF-60, Constant Voltage Constant Current LED Driver, Voltage Constant Current LED Driver, Constant Current LED Driver, Current LED Driver, LED Driver, Driver

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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