









■ 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 IP67 level
- Typical lifetime>50000 hours
- 5 years warranty

Applications

- · LED panel lighting
- · LED downlight
- LED decorative lighting
- LED tunnel lighting
- · Moving sign
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

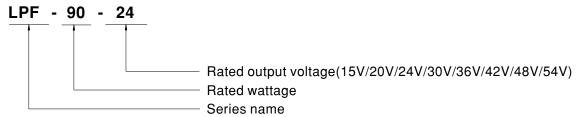
■ GTIN CODE

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

■ Description

LPF-90 series is a 90W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-90 operates from $90\sim305$ VAC and offers models with different rated voltage ranging between 15V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C $^{\circ}$ 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.

■ Model Encoding





90W Constant Voltage + Constant Current LED Driver

.8 ~ 48V 32.4 ~ 5	48V						
38A 1.67A	28.8 ~ 48V						
	1.88A						
.24W 90.18W	90.24W						
	200mVp-p						
	±4.0%						
	±0.5%						
	±0.5%						
.070	1 20.070						
	90 ~ 305VAC 127 ~ 431VDC (Diagon refer to "STATIC CHARACTERISTIC" section)						
	(Please refer to "STATIC CHARACTERISTIC" section) 47 ~ 63Hz						
	1						
% 91%	91%						
	95~108%						
201/	onstant current limiting, recovers automatically after fault condition is removed 3 ~ 21V						
~ 60V 59 ~ 65	54 ~ 60V						
nt, BS EN/EN62384,							
0-1	L60950-1						
	0-3-3,						
ne-Line 2KV),EAC TF	ınity Line-Line 2k						
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be affected by the	e will be affecte						
	switch						
	DLC), is about 7						
is about 70°C or less							
is about 70℃ or less							
nt 0	pendent L60950 0-3-3, unity Lin						

10. For any application note and IP water proof function installation caution, please refer our user manual before using.

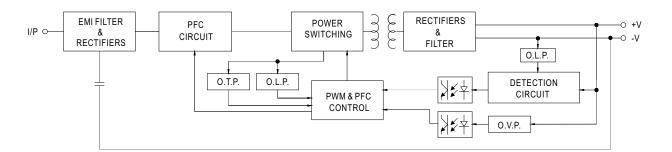
xim Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

https://www.meanwell.com/Upload/PDF/LED_EN.pdf



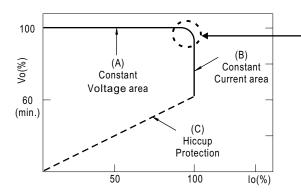
■ BLOCK DIAGRAM

fosc: 100KHz



■ DRIVING METHODS OF LED MODULE

X This series is able to work in either Constant Current mode (a direct drive way) or Constant Voltage mode (usually through additional DC/DC driver) to drive the LEDs.

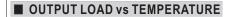


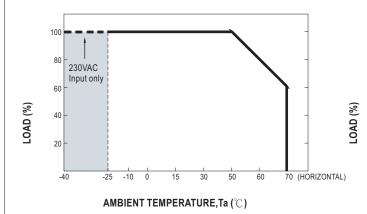
Typical output current normalized by rated current (%)

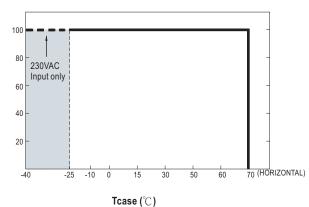
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.

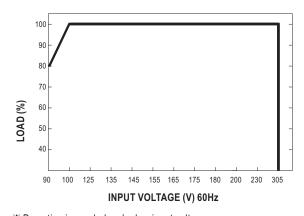








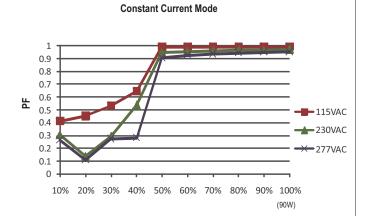
■ STATIC CHARACTERISTIC



 $\ensuremath{\mathbb{X}}$ De-rating is needed under low input voltage.

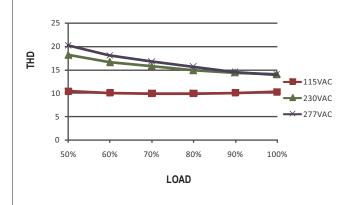
■ POWER FACTOR (PF) CHARACTERISTIC

★ Tcase at 60°C



■ TOTAL HARMONIC DISTORTION (THD)

imes 48V Model, Tcase at 60 $^{\circ}$ C

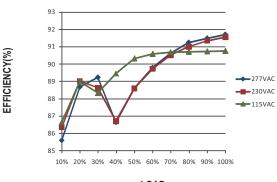


■ EFFICIENCY vs LOAD

LPF-90 series possess superior working efficiency that up to 91% can be reached in field applications.

LOAD

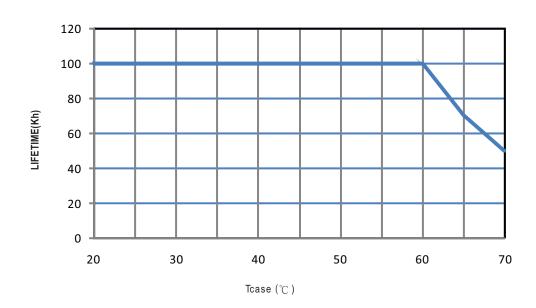
¾ 48V Model, Tcase at 60°C



LOAD



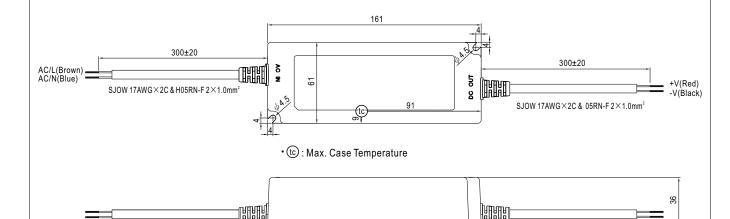
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-90A Unit:mm



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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