









■ Features

- Constant Voltage + 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
- Typical lifetime>50000 hours
- 5 years warranty

■ Applications

- · LED downlight
- · LED spotlight
- · LED decorative lighting
- · LED tunnel lighting

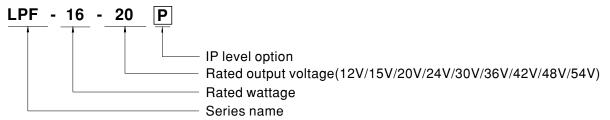
■ GTIN CODE

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

■ Description

LPF-16 series is a 16W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-16 operates from $90\sim305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the efficiency up to 86%, 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 locations and the optional models with IP67 rating is able to further work at wet locations.

■ Model Encoding



Туре	IP Level	Note
Blank	IP30	In Stock
P	IP67	By request



16W Constant Voltage + Constant Current LED Driver

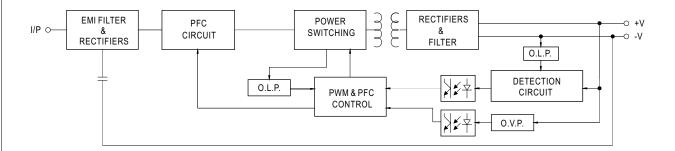
MODEL		LPF-16-12	LPF-16-15	LPF-16-20	LPF-16-24	LPF-16-30	LPF-16-36	LPF-16-42	LPF-16-48	LPF-16-54		
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
OUTPUT	CONSTANT CURRENT REGION Note.2		8.25 ~ 15V	11 ~ 20V	13.2 ~ 24V	16.5 ~ 30V	19.8 ~ 36V	23.1 ~ 42V	26.4 ~ 48V	29.7 ~ 54V		
	RATED CURRENT	1.34A	1.07A	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		
	RIPPLE & NOISE (max.) Note.3		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	VOLTAGE TOLERANCE Note.4		±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%		
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME Note.6					10.576	10.576	10.576	10.576	10.576		
	,	1500ms, 80ms / 115VAC 500ms, 80ms / 230VAC										
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms /115VAC										
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC										
	EDECUENOV DANCE	(Please refer to "STATIC CHARACTERISTIC" section)										
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR	$\label{eq:problem} \begin{split} PF & \geq 0.97/115 VAC, PF \geq 0.95/230 VAC, PF \geq 0.92/277 VAC @ full \ load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) split$										
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)										
INPUT	EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%		
	AC CURRENT	0.4A / 115VA	0.25A/	230VAC 0.2	A/277VAC	•		•		•		
	INRUSH CURRENT(Typ.)	COLD START	T45A(twidth=2	00μs measure	d at 50% Ipeak) at 230VAC; Pe	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 / 24	<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 an	d latch off o/p		ver on to recov	er						
	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										
	WORKING TEMP.		•									
ENVIRONMENT	MAX. CASE TEMP.	Tcase=-35 ~ +70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) Tcase=+70°C										
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH										
	TEMP. COEFFICIENT	-,										
	VIBRATION	±0.03%/°C (0 ~ 50°C) 10 ~ 500Hz, 2G 12min /1cycle, period for 72min, each along X, V, 7 avec										
	SAFETY STANDARDS Note.8	Jo1347-2-13,EAC TP TC 004,GB19310.1,GB19310.14 approved,IP67 (optional); Design refer to UL00930-1										
SAFETY & EMC	WITHSTAND VOLTAGE											
	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC									
	EMC EMISSION Note.8	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%); BS EN/EN61000-3-3,GB/T 17743, GB17625.1,										
		EAC TP TC 020 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										
	EMC IMMUNITY	· ·								AC 1P 1C 020		
OTHERS	MTBF	3572.8K hrs		iiula 5K-332 ((Delicore); 42	27.3K hrs min.	MIL-HDR	K-217F (25°C)			
	DIMENSION	148*40*32mr	, ,	UET.								
	PACKING	0.21Kg; 40pcs/9.4Kg/1.02CUFT										
NOTE	Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to De-rating may be needed ur	y mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. ETHODS OF LED MODULE". at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Ilerance, line regulation and load regulation. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Index assured 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 (to 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).
- 12. 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
- X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



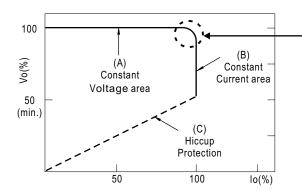
■ BLOCK DIAGRAM

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.

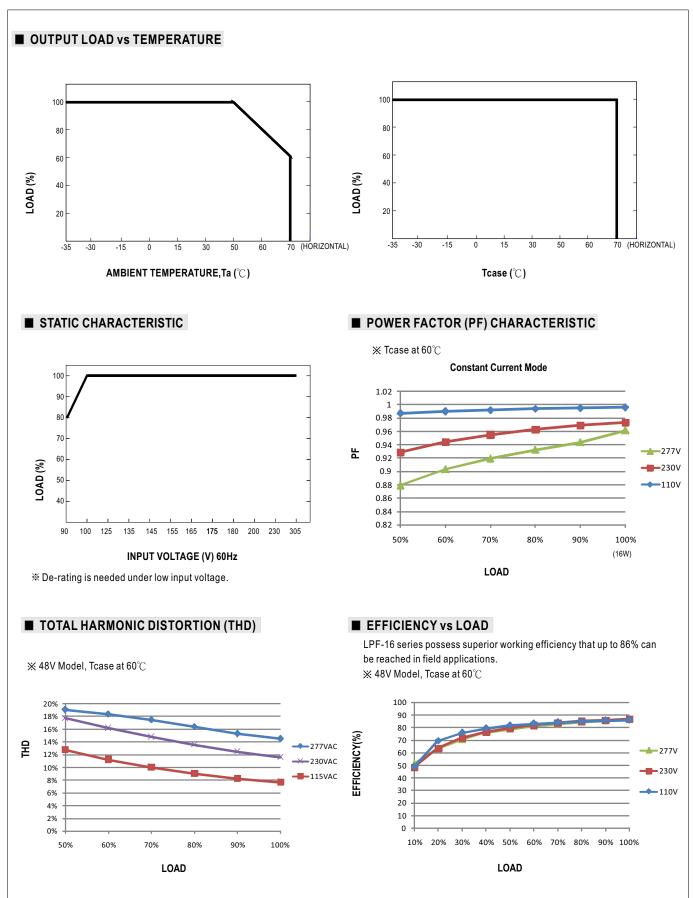


Typical output current normalized by rated current (%)

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

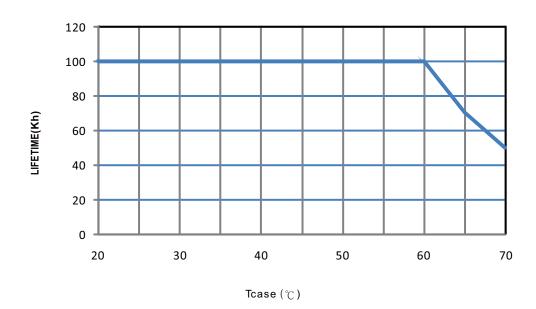
Should there be any compatibility issues, please contact MEAN WELL.







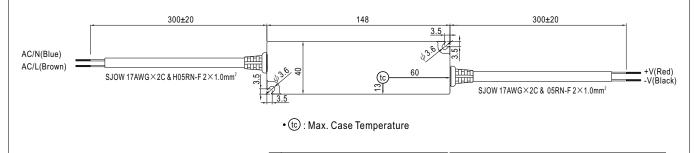
■ LIFE TIME





■ MECHANICAL SPECIFICATION

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





■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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



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