







#### ■ Features

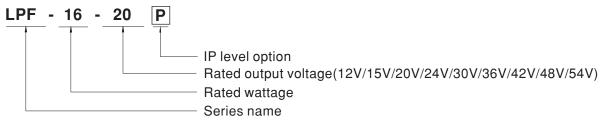
- Constant Voltage + Constant Current mode output
- · Plastic housing with Class II design
- Built-in active PFC function
- · Class 2 power unit
- Fully encapsulated with IP30 level, optional IP67 rating
- Typical lifetime>50000 hours
- 5 years warranty

## Applications

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

## Description

## **■** Model Encoding



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



# 16W Constant Voltage + Constant Current LED Driver

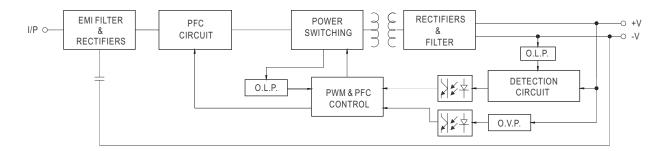
#### **SPECIFICATION**

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		
ОИТРИТ	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	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p		
	VOLTAGE TOLERANCE Note.4	- ' ' -	±4.0%	150mVp-p ±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%		
							±0.5%	±4.0 %				
	LINE REGULATION	±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%										
	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)										
	FREQUENCY RANGE	47 ~ 63Hz										
	DOWED EACTOR			5/230VAC, PF ≥								
	POWER FACTOR	(Please refer t	o "POWER FA	CTOR (PF) CH	ARACTERISTI	C" section)						
	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			A/277VAC		10,0					
	INRUSH CURRENT(Typ.)	COLD START				at 230VAC: P	er NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	COLD START 45A(twidth=200µs measured at 50% lpeak) at 230VAC; Per NEMA 410  14 units (circuit breaker of type B) / 24 units (circuit breaker of type C) at 230VAC										
	LEAKAGE CURRENT	<0.75mA / 24	0VAC									
		95~108%										
PROTECTION	OVER CURRENT		ent limiting rec	overs automati	cally after fault	condition is rem	noved					
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed  Hiccup mode, recovers automatically after fault condition is removed.										
	SHOKT CIKCOTT	Hiccup mode, recovers automatically after fault condition is removed  15 ~ 18V										
	OVER VOLTAGE						11 101	10 011	01 001	100 001		
	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										
FINADOMENT	WORKING TEMP.	Tcase=-35 ~ +70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)										
	MAX. CASE TEMP.		•	Telef to OOTI	OT LOAD VS	ILIVII LIVATOR	L 3ection)					
		Tcase=+70°C  20 ~ 95% RH non-condensing										
	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 ~ +80°C,		19								
ENVIRONMENT												
	TEMP. COEFFICIENT	±0.03%/℃ (0	- /		70 ' ' '	V V 7						
	VIBRATION					ong X, Y, Z axe		EN100004 1040	17.4			
	SAFETY STANDARDS Note.8	UI8750, CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13 independent, EN62384, J61347-1,										
	WITHSTAND VOLTAGE	J61347-2-13 approved,IP67 (optional) ; Design refer to UL60950-1, TUV EN60950-1										
SAFETY &		I/P-O/P:3.75KVAC										
EMC	ISOLATION RESISTANCE	I/P-0/P:100M Ohms / 500VDC / 25°C / 70% RH										
	EMC EMISSION Note.8	Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%); EN61000-3-3										
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV)										
OTHERS	MTBF	473.3Khrs mi		K-217F (25°€)								
	DIMENSION	148*40*32mm (L*W*H)										
	PACKING	0, 1	s/9.4Kg/1.02Cl									
NOTE	Please refer to "DRIVING N     Ripple & noise are measured     Tolerance: includes set up t     De-rating may be needed u     Length of set up time is me     The driver is considered as complete installation, the fir     The model certified for CCC     To fulfill requirements of the without permanently connec     To This series meets the typic	parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.  asse refer to "DRIVING METHODS OF LED MODULE".  ble & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  because includes set up tolerance, line regulation and load regulation.  rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.  light of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.  ediver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the molete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.  elemodel certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model. Please contact MEAN WELL for details.  culfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch out permanently connected to the mains.  list 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.  ease refer to the warranty statement on MEAN WELL's website at <a href="http://www.meanwell.com">http://www.meanwell.com</a>										



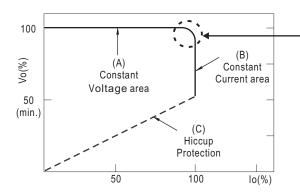
#### ■ BLOCK DIAGRAM

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.

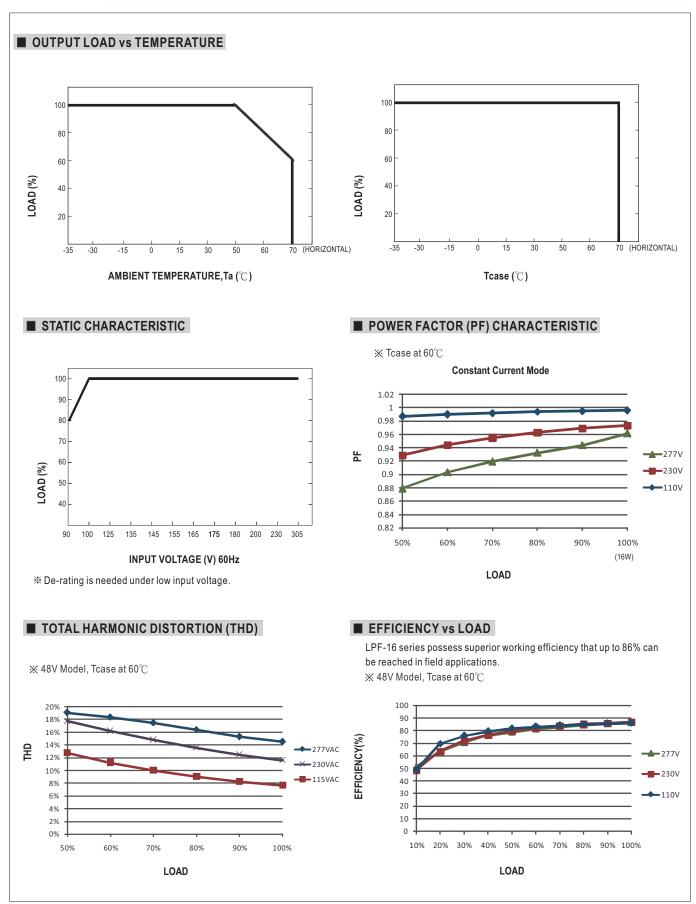


Typical output current normalized by rated current (%)

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

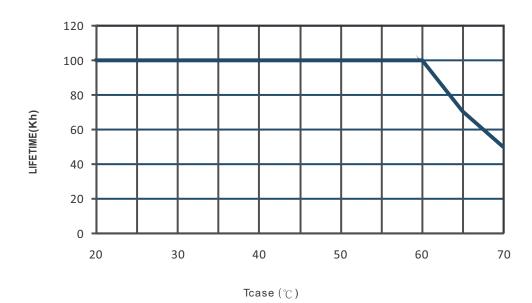
Should there be any compatibility issues, please contact MEAN WELL.







# **■** LIFE TIME



File Name:LPF-16-SPEC 2017-04-13



### ■ MECHANICAL SPECIFICATION

CASE NO.: LPF-16A Unit:mm

