









■ 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

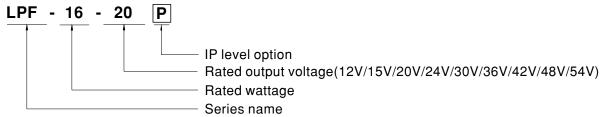
■ GTIN CODE

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 $-35^{\circ}\text{C} \sim +70^{\circ}\text{C}$ 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
Р	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		
ОИТРИТ	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V		
	CONSTANT CURRENT REGION Note.2	6.6 ~12V	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	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						201070		20.070			
	HOLD UP TIME (Typ.)	1500ms, 80ms / 115VAC 500ms, 80ms / 230VAC 16ms/230VAC 16ms /115VAC										
	TIOLD OF TIME (Typ.)	90 ~ 305VAC 127 ~ 431VDC										
	VOLTAGE RANGE Note.5											
	FREQUENCY RANGE	,										
	FREQUENCT RANGE	47 ~ 63Hz										
	POWER FACTOR	PF≥0.97/115VAC, PF≥0.95/230VAC, PF≥0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
		,		. ,		<u> </u>						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)										
MOUT	EFFICIENCY (T.)					-	000/	000/	000/	000/		
NPUT	EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%		
	AC CURRENT	0.4A / 115VA			A/277VAC							
	INRUSH CURRENT(Typ.)	COLD START 45A(twidth=200µs measured at 50% lpeak) at 230VAC; Per 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/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 and latch off o/p voltage, re-power on to recover										
	OVER TEMPERATURE	Shut down and later on orp voltage, re-power on to recover Shut down o/p voltage, recovers automatically after temperature goes down										
	WORKING TEMP.				· ·							
	MAX. CASE TEMP.	Tcase=-35 ~ +70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)										
		Tcase=+70°C 20 ~ 95% RH non-condensing										
	WORKING HUMIDITY			iig								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,										
	TEMP. COEFFICIENT	±0.03%/℃ (0										
	VIBRATION			- ' 1		ong X, Y, Z axes						
	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, J61347-2-13, EAC TP TC 004, GB19510.1, GB19510.14 approved, IP67 (optional); Design refer to UL60950-1										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P:100N	/ Ohms / 500 V	/DC / 25°C / 70	% RH							
EIVIC	EMC EMISSION Note.8	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 50%) ; BS EN/EN61000-3-3,GB17743 and GB17625.1, EAC TP TC 020										
	EMC IMMUNITY	Compliance to	BS EN/EN610	000-4-2,3,4,5,6	8,11; BS EN/E	N61547, light in	dustry level (su	rge immunity L	ine-Line 2KV).E	AC TP TC 0		
	MTBF	3572.8K hrs				27.3K hrs min.		K-217F (25°C				
OTHERS	DIMENSION	148*40*32mr			(, , 11		22	(=5 5	/			
J.IILINO	PACKING		s/9.4Kg/1.02C	UFT								
					ut_rated ourre	nt and 25°C of	ambient tomp	oraturo				
IOTE	 All parameters NOT speciall Please refer to "DRIVING M 	-		-	ui, raieu curre	TIL AIIU 25 C OI	ambient temp	erature.				
		METHOUS OF LED MODULE: ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.										
	'''	one a noise are measured at zowinz or bandwidth by using a 12 twisted pair-wire terminated with a 0.1th & 47th parallel capacitor. Berance : 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.										
		ength of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.										
		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 fina	al equipment n	nanufacturers	must re-qualify	EMC Directiv	e on the comp	lete installation	n again.				
	8. To fulfill requirements of the	ne latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch										
	without permanently connec	nected to the mains.										
		al life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70°C or less.										
	10. Please refer to the warrant	•			•					/==::		
	11 The ambient temperature of	terating of 3.5°	/1000m with	taniace madal	e and of ETC /	1000m with fan	models for or	perating altitud	a nighar than 2	UU()m/65^^		

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.

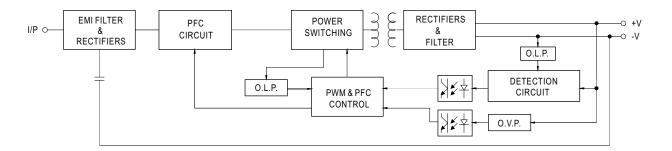
 $\hbox{$\times$ Product Liability Disclaimer: For detailed information, please refer to $https://www.meanwell.com/serviceDisclaimer.aspx}$$

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



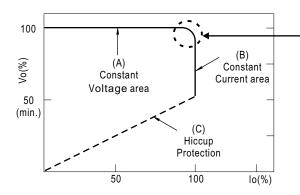
■ BLOCK DIAGRAM

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.

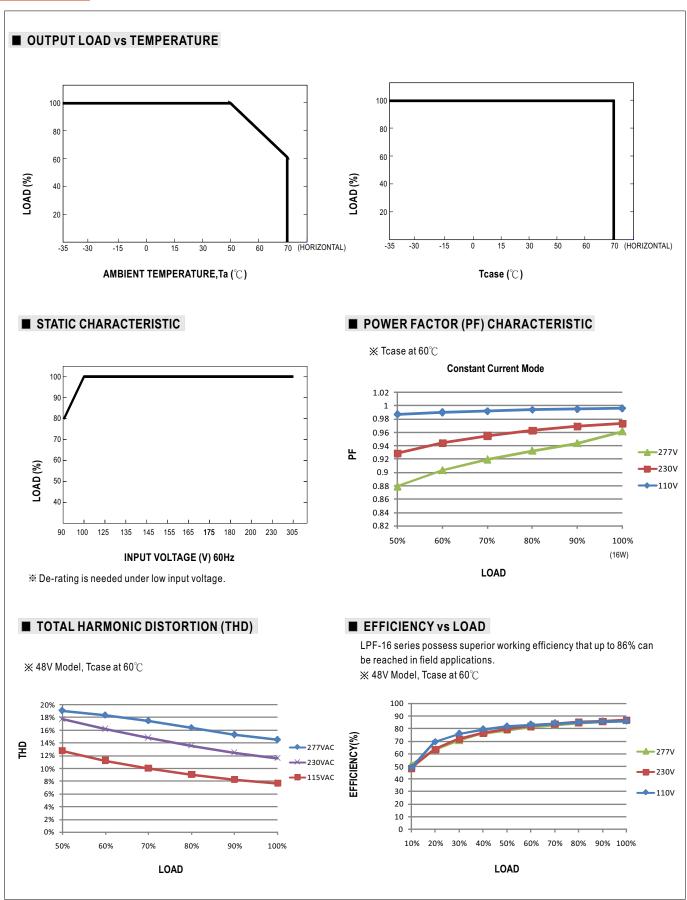


Typical output current normalized by rated current (%)

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

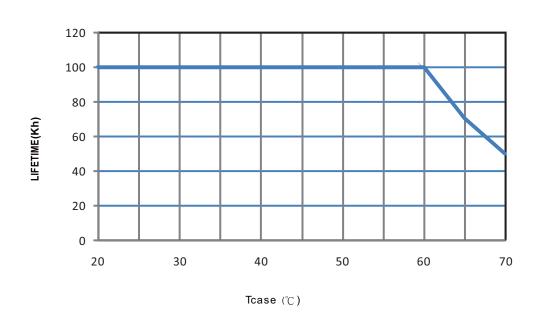
Should there be any compatibility issues, please contact MEAN WELL.







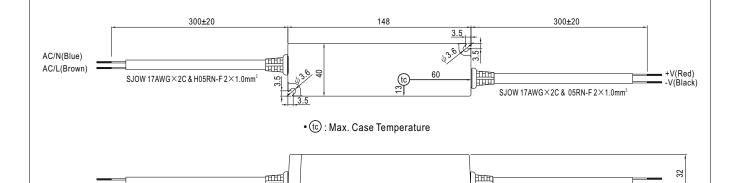
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-16A Unit:mm



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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

File Name:LPF-16-SPEC 2022-02-18