







Features

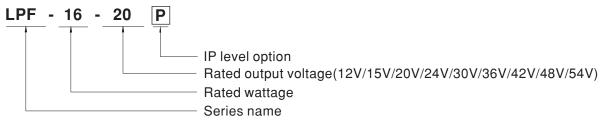
- Constant Voltage + Constant Current mode output
- · Plastic housing with Class II design
- Built-in active PFC function
- · Class 2 power unit
- Fully encapsulated with IP30 level, optional IP67 rating
- Typical lifetime>50000 hours
- 5 years warranty

Applications

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

Description

■ Model Encoding



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



16W Constant Voltage + Constant Current LED Driver

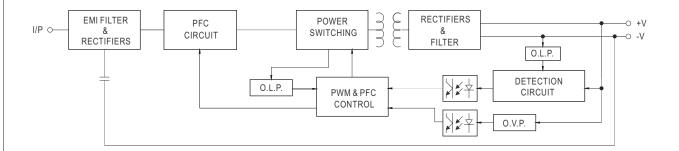
SPECIFICATION

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		
			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%		
		±2.0%	±1.5%	±1.0%								
	LOAD REGULATION											
	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 reter to "STATIC CHARACTERISTIC" SECTION)										
	FREQUENCY 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)										
		(Flease lelel t	U FOWER FA	CTOR (FF) CH	ANACIENISTI	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		230VAC 0.2								
	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										
		95~108%										
PROTECTION	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed										
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed										
	SHORT SHOOT	15 ~ 18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V		
	OVER VOLTAGE							1.0 0.1				
	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.	Tcase=-35 ~ +70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)										
	MAX. CASE TEMP.											
	WORKING HUMIDITY	Tcase=+70 $^{\circ}$ C 20 ~ 95% RH non-condensing										
ENVIDONMENT		-40 ~ +80°C,		19								
ENVIRONMENT	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT	±0.03%/℃ (0	,									
	VIBRATION	,	,	· 1		ong X, Y, Z axe		EN100004 1046	17.4			
	SAFETY STANDARDS Note.8	UI8750, CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13 independent, EN62384, J61347-1,										
	WITHOTAND VOLTAGE	J61347-2-13 approved,IP67 (optional); Design refer to UL60950-1, TUV EN60950-1										
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC										
EMC	ISOLATION RESISTANCE	I/P-O/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°C)								
	DIMENSION	148*40*32mn	,									
	PACKING	0.21Kg; 40pcs	s/9.4Kg/1.02Cl	UFT								
NOTE	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. 8. The model certified for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. 9.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. 10. This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 70°C or less. 11. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com											



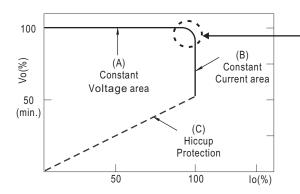
■ BLOCK DIAGRAM

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.

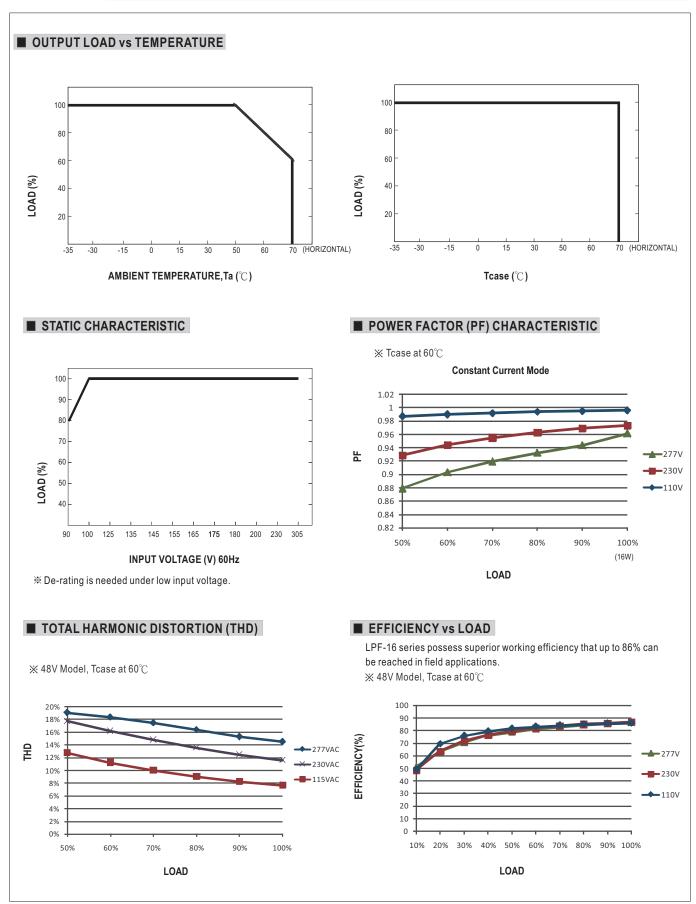


Typical output current normalized by rated current (%)

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

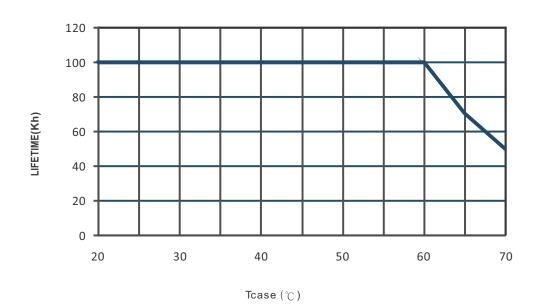
Should there be any compatibility issues, please contact MEAN WELL.







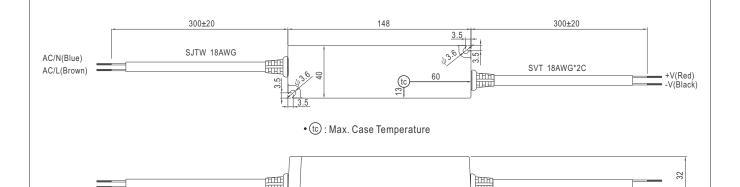
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-16A Unit:mm



■ INSTALLATION MANUAL

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