







■ Features

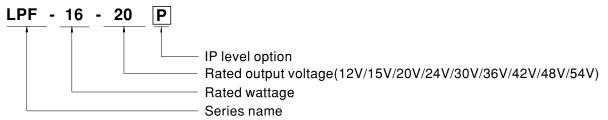
- · Constant Voltage + Constant Current mode output
- Plastic housing with Class II design
- Built-in active PFC function
- · Class 2 power unit
- Fully encapsulated with IP30 level, optional IP67 rating
- Typical lifetime>50000 hours
- 5 years warranty

■ 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

LPF-16 series

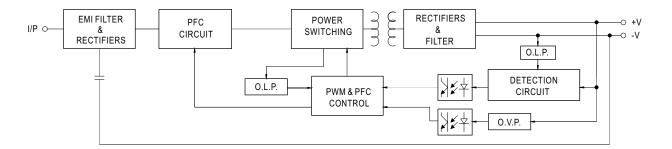
SPECIFICATION

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	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%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	LOAD REGULATION					10.576	10.076	10.570	10.576	10.576		
	SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.)	16ms/230VAC	s / 115VAC 5		230VAC							
	TIOLD OF TIME (Typ.)	16ms/230VAC 16ms/115VAC 90 ~ 305VAC 127 ~ 431VDC										
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 43 VDC (Please refer to "STATIC CHARACTERISTIC" section)										
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR	$\label{eq:pf} \begin{split} PF & \geq 0.97/115 VAC, PF \geq 0.95/230 VAC, PF \geq 0.92/277 VAC \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \end{split}$										
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)										
	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=2	00μs measure	d at 50% Ipeak) at 230VAC; P	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 / 240VAC										
	OVED CURRENT	95 ~ 108%										
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed										
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed										
	OVER VOLTAGE	15 ~ 18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V		
	OVER VOLIAGE	Shut down and latch off o/p voltage, re-power on to recover										
	OVER TEMPERATURE	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.	Tcase=+70°C										
	WORKING HUMIDITY	20 ~ 95% RH	non-condensir	ng								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C,	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0	~50℃)									
	VIBRATION					ong X, Y, Z axes						
	SAFETY STANDARDS Note.8	UI8750, CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13 independent, EN62384, J61347-1.										
SAFETY &	WITHSTAND VOLTAGE											
EMC	ISOLATION RESISTANCE											
LINIO	EMC EMISSION Note.8	Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%); EN61000-3-3										
	EMC IMMUNITY	Compliance to	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV)									
	MTBF	473.3Khrs mi		K-217F (25°C)			<u>-</u>	-				
OTHERS	DIMENSION	148*40*32mm (L*W*H)										
-	PACKING	0.21Kg; 40pcs	s/9.4Kg/1.02Cl	JFT								
NOTE	2. Please refer to "DRIVING N 3. Ripple & noise are measured 4. Tolerance: includes set up t 5. De-rating may be needed u 6. Length of set up time is me 7. The driver is considered as complete installation, the fir 8. The model certified for CCC 9. This series meets the typica	OT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. DRIVING METHODS OF LED MODULE". e measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. es set up tolerance, line regulation and load regulation. e needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. sidered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the lion, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. ed for CCC(GB19510.14, GB19510.1, GB17743 and GB17625.1) is an optional model . Please contact MEAN WELL for details. Is 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. The warranty statement on MEAN WELL's website at https://www.meanwell.com										



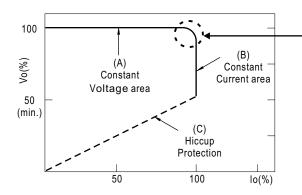
■ BLOCK DIAGRAM

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.

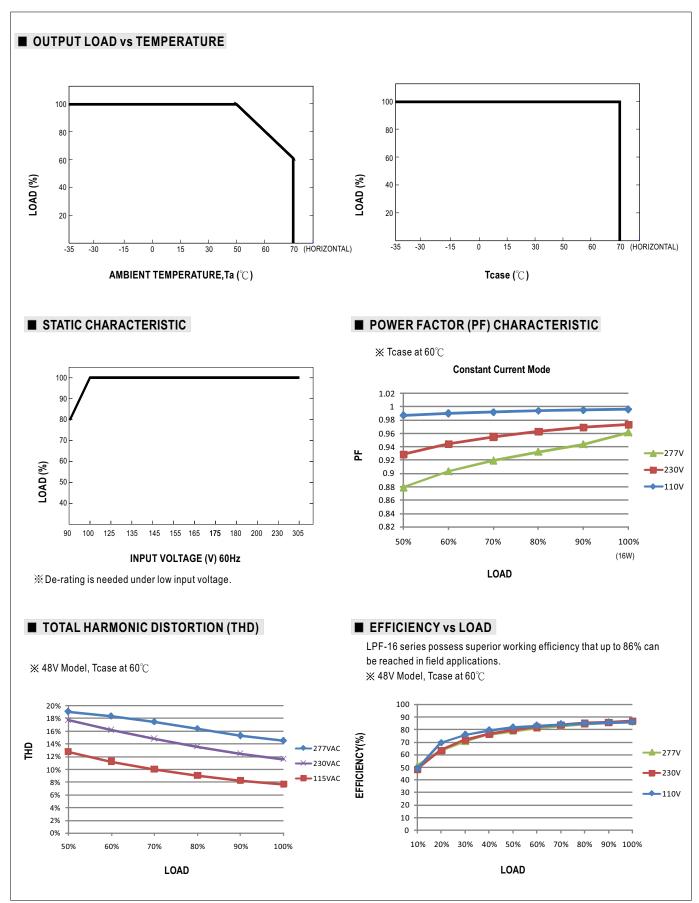


Typical output current normalized by rated current (%)

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

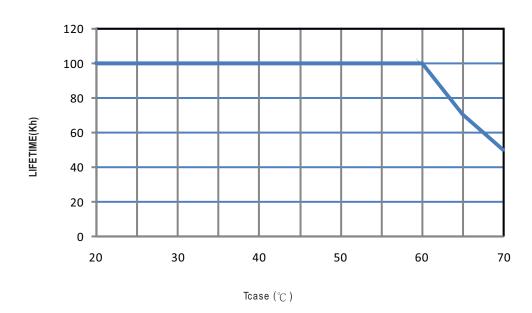
Should there be any compatibility issues, please contact MEAN WELL.







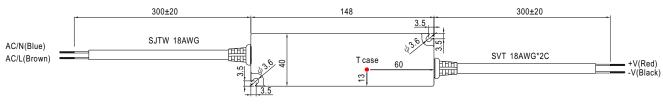
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-16A Unit:mm



※ T case: Max. Case Temperature.



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/webnet/search/InstallationSearch.html