









# 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

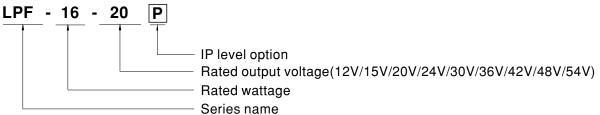
# GTIN CODE

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 $\sim$ 305VAC 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°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



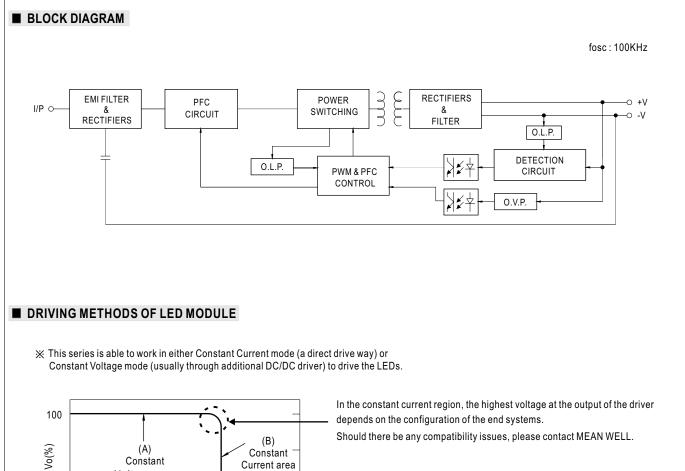
Туре	IP Level	Note		
Blank	IP30	In Stock		
Р	IP67	By request		

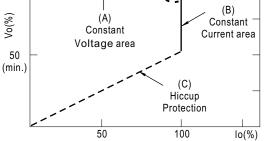


#### SPECIFICATION

	CATION											
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	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%		
		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
		±2.0%	±1.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
						10.576	10.576	10.576	10.570	10.576		
	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										
	POWER FACTOR	PF≧0.97/115VAC, PF≧0.95/230VAC, PF≧0.92/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" 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%		
	ACCURRENT	0.4A / 115VA	C 0.25A/	230VAC 0.2	A/277VAC							
	INRUSH CURRENT(Typ.)					() at 230VAC; P	er NEMA 410					
	MAX. No. of PSUs on 16A		•	•	•	aker of type C) a						
	CIRCUIT BREAKER	<0.75mA / 240VAC										
		95 ~ 108%										
	OVER CURRENT	Constant curr	rent limiting, rec	overs automati	cally after fault	condition is rem	noved					
	SHORT CIRCUIT		, recovers auto									
PROTECTION		15~18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46~54V	54 ~ 63V	59~66V		
	OVER VOLTAGE		nd latch off o/p									
	OVER TEMPERATURE					erature goes de	own					
					, .							
	WORKING TEMP.		,	Teler to "OUT	PUT LUAD VS	TEMPERATUR	E section)					
	MAX. CASE TEMP.	Tcase=+70°C										
	WORKING HUMIDITY	20 ~ 95% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH										
	TEMP. COEFFICIENT	±0.03%/°C (0	<b>)~50°</b> ℃)									
	VIBRATION	10 ~ 500Hz, 2	2G 12min./1cyc	cle, period for	72min. each al	ong X, Y, Z axe	S					
	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, J61347-1 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									
	ISOLATION RESISTANCE			/DC / 25°C / 70	% RH							
EMC	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										
	EMC IMMUNITY			00-4-23456	8 11 BS EN/E	N61547 light in	idustry level (er	irae immunity l	ine-l ine 2K\/\ I			
	MTBF	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 020 3572.8K hrs min. Telcordia SR-332 (Bellcore) ; 427.3K hrs min. MIL-HDBK-217F (25°C)										
OTHERS	DIMENSION	3572.8K hrs min. Telcordia SR-332 (Bellcore) ; 427.3K hrs min. MIL-HDBK-217F (25°C) 148*40*32mm (L*W*H)										
			、 ,									
	PACKING	0.21Kg; 40pcs/9.4Kg/1.02CUFT ally mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature.										
NOTE	<ol> <li>Air parameters Nor special</li> <li>Please refer to "DRIVING M</li> <li>Ripple &amp; noise are measured</li> <li>Tolerance : includes set up to</li> <li>De-rating may be needed ur</li> <li>Length of set up time is mea</li> <li>The driver is considered as a complete installation, the fina (as available on https://www</li> <li>To fulfill requirements of the without permanently connect</li> <li>This series meets the typica</li> </ol>	ETHODS OF I at 20MHz of the laterance, line re- nder low input asured at first of a component fi al equipment r meanwell.com latest ErP reg ted to the mai	LED MODULE bandwidth by us egulation and lo voltages. Plea cold start. Turm that will be ope nanufacturers n//Upload/PDF, ulation for light ns.	" sing a 12" twist ad regulation. se refer to "ST ing ON/OFF ti arated in comb must re-qualify /EMI_statemen ing fixtures, thi	ted pair-wire te ATIC CHARA he driver may ination with fin y EMC Directiv nt_en.pdf) is LED driver of	rminated with a CTERISTIC" se lead to increas al equipment. ve on the comp can only be use	0.1uf & 47uf p ections for det e of the set up Since EMC pe lete installation ed behind a sv	varallel capacito ails. ) time. rformance will n again. vitch	be affected by			

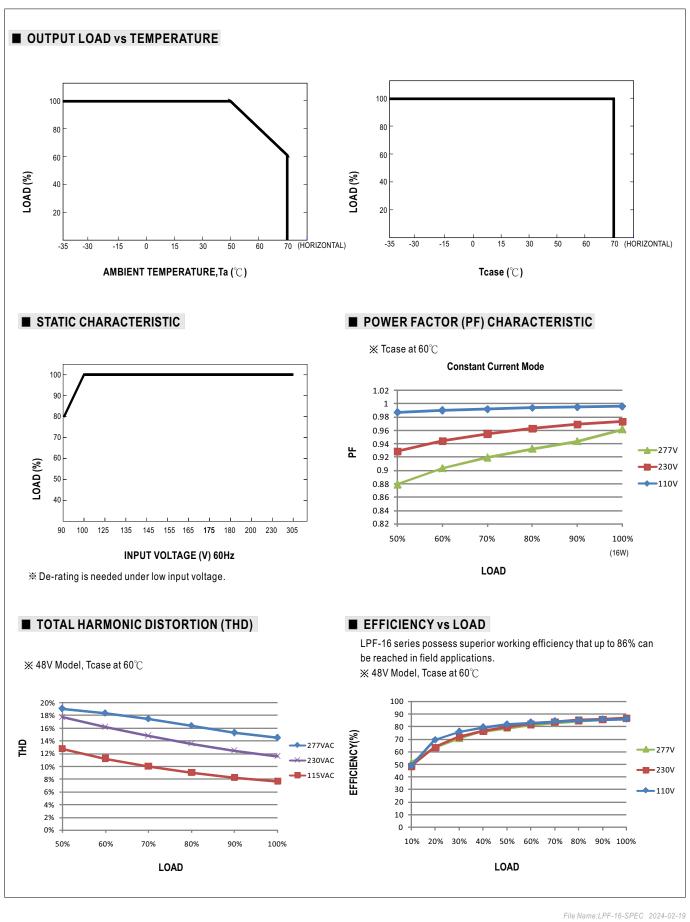






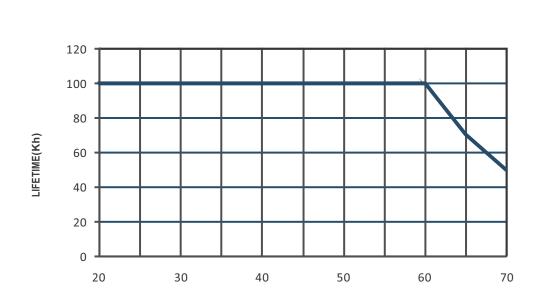
Typical output current normalized by rated current (%)







LIFE TIME



Tcase (°℃)



