









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

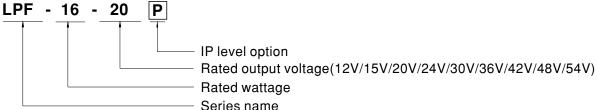
GTIN CODE

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



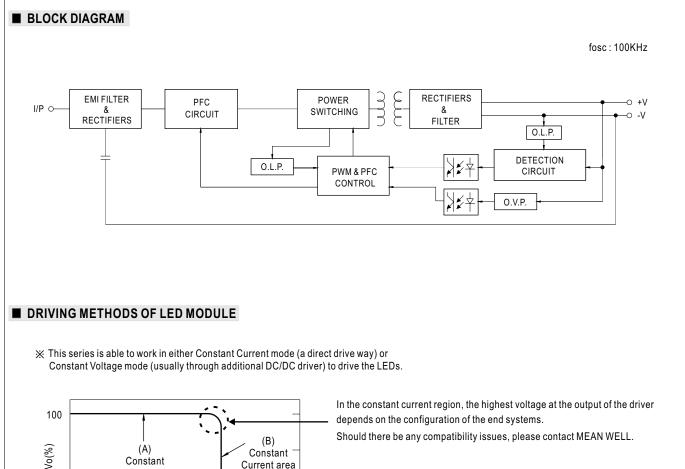
Туре	IP Level	Note
Blank	IP30	In Stock
Р	IP67	By request

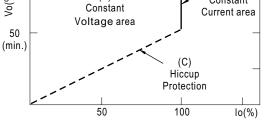


SPECIFICATION

CATION										
									LPF-16-54	
DC VOLTAGE	12V	15V	20V	24V				48V	54V	
		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%	±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%	
	1500ms 80m	us / 115VAC 5	00ms_80ms/3	230VAC					1	
	,		,	200 1110						
VOLTAGE RANGE Note.5	90 ~ 305VAC	127 ~ 43	1VDC	(ICII as atian)						
			IARACIERISI	ic section)						
FREQUENCY RANGE										
POWER FACTOR										
TOTAL HARMONIC DISTORTION			, , ,	0	,					
EFFICIENCY (Typ.)	84%	84%	86%	86%	86%	86%	86%	86%	86%	
AC CURRENT	0.4A / 115VA	.C 0.25A/	230VAC 0.2	A/277VAC						
INRUSH CURRENT(Typ.)	COLD STAR	T 45A(twidth=2	200µs measure	d at 50% lpeal	() at 230VAC; P	er NEMA 410				
MAX. No. of PSUs on 16A CIRCUIT BREAKER		•	•	•						
LEAKAGE CURRENT	<0.75mA/24	<0.75mA/240VAC								
OVER CURRENT										
	Constant curr	rent limiting, rec	overs automati	cally after fault	condition is rem	noved				
SHORT CIRCUIT	Hiccup mode	, recovers auto	matically 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 VOLIAGE	Shut down ar	nd latch off o/p	voltage, re-pov	ver on to recov	er					
OVER TEMPERATURE	Shut down o/	p voltage, reco	vers automatic	ally after temp	erature goes de	own				
WORKING TEMP.	Tcase=-35 ~	+70°C (Please	refer to " OUT!	PUT LOAD vs	TEMPERATUR	E" section)				
						,				
			.9							
		,		70		_				
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-									
WITHSTAND VOLTAGE										
				0/ DL						
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,									
EMC IMMUNITY		EAC TP TC 020 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 02								
MTBF	3572.8K hrs	min. Telco	ordia SR-332	(Bellcore); 42	27.3K hrs min.	MIL-HDB	K-217F (25°C	c)		
DIMENSION	148*40*32m	m (L*W*H)		,						
	0.21Kg; 40pc	s/9.4Ka/1.02C	UFT							
		-		ut, rated currer	nt and 25°⊂ of	ambient temp	erature.			
 Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to De-rating may be needed ur Length of set up time is mea The driver is considered as complete installation, the fina (as available on https://www To fulfill requirements of the without permanently connect This series meets the typica 	ETHODS OF I at 20MHz of the olerance, line re- nder low input asured at first of a component for al equipment r meanwell.com latest ErP reg ted to the main I life expectation	LED MODULE bandwidth by us egulation and lo voltages. Plea: cold start. Turn that will be ope manufacturers in n//Upload/PDF/ ulation for lighti ns. cy of >50,000 h	E". sing a 12" twist pad regulation. use refer to "ST ning ON/OFF the rated in combin must re-qualify /EMI_statementing fixtures, thi hours of operar	ATIC CHARA THIC CHARA ne driver may ination with fin MC Directiv nt_en.pdf) is LED driver of tion when Tca	rminated with a CTERISTIC" se lead to increas al equipment. re 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	parallel capacito ails. p time. vrformance will n again. vitch	be affected by		
	CONSTANT CURRENT REGION Note.2 RATED CURRENT RATED POWER Note.5 RIPPLE & NOISE (max.) Note.3 VOLTAGE TOLERANCE Note.4 LINE REGULATION LOAD REGULATION SETUP, RISE TIME Note.6 HOLD UP TIME (Typ.) VOLTAGE RANGE Note.5 FREQUENCY RANGE POWER FACTOR TOTAL HARMONIC DISTORTION EFFICIENCY (Typ.) AC CURRENT INRUSH CURRENT(Typ.) MAX. No. of PSUs on 16A CIRCUIT BREAKER LEAKAGE CURRENT OVER CURRENT SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. MAX. CASE TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS Note.8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION Note.8 EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT speciall 2. Please refer to "DRIVING M 3. Ripple & noise are measured 4. Tolerance : includes set up to 5. De-rating may be needed ur 6. Length of set up time is mea 7. The driver is considered as a complete installation, the fina (as available on https://www 8. To fulfill requirements of the without permanently connec 9. This series meets the typical	CONSTANT CURRENT REGION Note.2 6.6 - 12V RATED CURRENT 1.34A RATED CURRENT 1.34A RATED POWER Note.5 16.08W RIPPLE & NOISE (max.) Note.3 150mVp-p VOLTAGE TOLERANCE Note.4 ±4.0% LINE REGULATION ±2.0% SETUP, RISE TIME Note.6 1500ms, 80m HOLD UP TIME (Typ.) 16ms/230VAC VOLTAGE RANGE Note.5 POWER FACTOR PF ≥ 0.97/115 (Please refer FREQUENCY RANGE TOTAL HARMONIC DISTORTION THD<20%(@	DC VOLTAGE12V15VCONSTANT CURRENT REGION Note 26.6 ~ 12V8.25 ~ 15VRATED CURRENT1.34A1.07ARATED CURRENT1.34A1.07ARATED CURRENT1.34A1.07ARATED CURRENT1.34A1.07ARATED CURRENT1.34A1.07ARATED CURRENT1.34A1.07ARATED CURRENT1.40% $\pm 4.0\%$ LINE REGULATION $\pm 0.5\%$ $\pm 0.5\%$ LOAD REGULATION $\pm 2.0\%$ $\pm 1.5\%$ SETUP, RISE TIME Note.61500ms, 80ms / 115VAC 5HOLD UP TIME (Typ.)16ms/230VAC16ms / 17VOLTAGE RANGENote.590 ~ 305VAC127 ~ 43(Please refer to "STATIC CFFREQUENCY RANGE47 ~ 63H2POWER FACTORPF $\geq 0.97/115VAC$, PF ≥ 0.97 (Please refer to "TOTAL HAEFFICIENCY (Typ.)84%84%84%AC CURRENT0.4/115VAC0.25A/INRUSH CURRENT(Typ.)COLD START 45A(twidth=2MAX. No. of PSUs on 16A CIRCUIT BREAKER14 units (circuit breaker of the CIRCUIT BREAKERLEAKAGE CURRENT<0.75mA / 240VAC	DC VOLTAGE12V15V20VCONSTANT CURRENT REGION Note26.6 - 12V8.25 - 15V11 - 20VRATED CURRENT1.34A1.07A0.8ARATED POWERNotes.16.08W16.05W116WRIPPLE & NOISE (max.) Note.3150mVp-p150mVp-p150mVp-pVOLTAGE TOLERANCE Note 4 $\pm 0.0\%$ $\pm 1.65\%$ $\pm 0.5\%$ $\pm 0.5\%$ LOAD REGULATION $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ $\pm 0.5\%$ HOLD UP TIME (Typ.)16ms/230VAC16ms/115VAC500ms, 80ms /2VOLTAGE RANGENote.61500ms, 80ms /115VAC500ms, 80ms /2VOLTAGE RANGENote.61500ms, 80ms /115VAC500ms, 80ms /2VOLTAGE RANGENote.590 ~ 305VAC127 ~ 431VDCVOLTAGE RANGENote.590 ~ 305VAC127 ~ 431VDCVOLTAGE RANGENote.5POWER FACTORPF $\geq 0.97115VAC, PF \geq 0.95/230VAC, PF \geq$ POWER FACTORPF $\geq 0.97115VAC, PF \geq 0.95/230VAC, 0.211RUSH CURRENT(Typ.)84%RAC CURRENT0.4A / 115VAC0.25A / 230VAC 0.2INRUSH CURRENT(Typ.)84%84%86%AC CURRENT0.4A / 115VAC0.25A / 230VAC 0.2INRUSH CURRENT(Typ.)84%14 units (circuit breaker of type B) / 24 unitLEAKAGE CURRENT0.75mA / 240VAC90 ~ 108%OVER CURRENTCOLD START 45A(twidth=200µs measureMAX. No. of PSUS on 16A15 ~ 18V17.5 ~ 21VCIRCUIT BREAKER14 units (circuit breaker of type B) / 24 unitLEAKAGE CURRENT0.75mA / 240VAC$	DC VOLTAGE12V15V20V24VCONSTANT CURRENT REGION Note:6.6 - 12V8.25 - 15V11 - 20V13.2 - 24VRATED POWER Note:16.08W110.05W110.08W110.08WRATED POWER Note:150mVp-p150mVp-p150mVp-p150mVp-pVOLTAGE TOLERANCE Note:4.40%±4.0%±4.0%±4.0%LINE REGULATION±0.5%±0.5%±0.5%±0.5%SETUP, RISE TIME Note:1500ms, 80ms / 115VAC 500ms, 80ms / 230VAC100 - 305VAC127 - 431VDC(Please refer to "STATIC CHARACTERISTIC" section)90 - 305VAC127 - 431VDCFREQUENCY RANGE47 - 63HzPOWER FACTORPF $\ge 0.92/230VAC$; 020/24C/ERISTITOTAL HARMONIC DISTORTIONTHD 2 20% (@load260%/115VC, 230VAC; @load275%/ (Please refer to "TOTAL HARMONIC DISTORTIONTHEFFICIENCY (Typ.)84%84%86%AC CURRENT0.4A1 (115VAC0.25A1/230VAC0.24/277VACINRUSH CURRENT(Typ.)COLD START 45A(twidth=200µs measured at 50% lpea/AX. No. of PSUs on 16A CIRCUIT BREAKER14 units (circuit breaker of type B) / 24 units (circuit breaker of type B) / 24 unitsShort CIRCUITHiccup mode, recovers automatically after faultShort OVER VOLTAGE55 - 108%OVER VOLTAGE55 - 108%OVER VOLTAGE15 - 180°, 17 - 270°OVER VOLTAGE15 - 180°, 17 - 270°WORKING TEMP.Tcase=3 - 470°CHARCE CURRENT40 - 95 - 108%Stud down and latch of fol yo latage, re-power on to recovOVER TEMPERATUREShut down a	DC VOLTAGE 12V 15V 20V 24V 30V CONSTANT CURRENT REGION Mas2, 6, 6 - 12V 8, 25 - 15V 11 - 20V 112, 2 - 24V 16, 5 - 30V RATED POWER Nots, 1 1, 107A 0, 8A 0, 67A 0, 54A RATED POWER Nots, 1 150mVp-p 150mVp-p 150mVp-p 20mVp-p VOLTAGE TOLERANCE Nots, 4 40, % ±4, 0% ±4, 0% ±4, 0% ±4, 0% LINE REGULATION ±2, 0% ±1, 5% ±1, 0% ±0, 5% ±0, 5% ±0, 5% ±0, 5% LINE REGULATION ±2, 0% ±1, 5% ±1, 0% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±0, 5% ±1, 5% ±1, 0% ±0, 5%	DC VOLTAGE 12V 15V 20V 24V 30V 36V CONSTANT CURRENT REGOM was2 6.6 - 12V 8.25 - 15V 11 - 20V 132 - 24V 16.5 - 30V 18.9 - 36V RATED CURRENT 13.34 10.7A 0.8A 0.67A 0.4A 0.4A RATED CURRENT 13.34 10.7A 0.8A 0.67A 0.4A 0.4A VOLTAGE TOLERANCE toxes. 14.0% ±0.5% ±0.5%	DC VOLTAGE 12V 15V 20V 24V 30V 36V 42V CONSTAUCURRENT REGION 42, 6.6 -12V 16, 25 - 15V 11 - 20V 13.2 - 24V 16.6 - 30V 13.8 - 33V 23.1 - 42V RATED CURRENT 1.3.4 1.0.7A 0.8.4 0.67A 0.5.4A 0.4.5A 0.3.8A RATED CURRENCE 1.6.0.9W 16.0.9W 10.0.9K 20.0.9K 20.0.9K	DC VoltAGE 12V 15V 20V 20V 36V 42V 48V 48V <th< td=""></th<>	



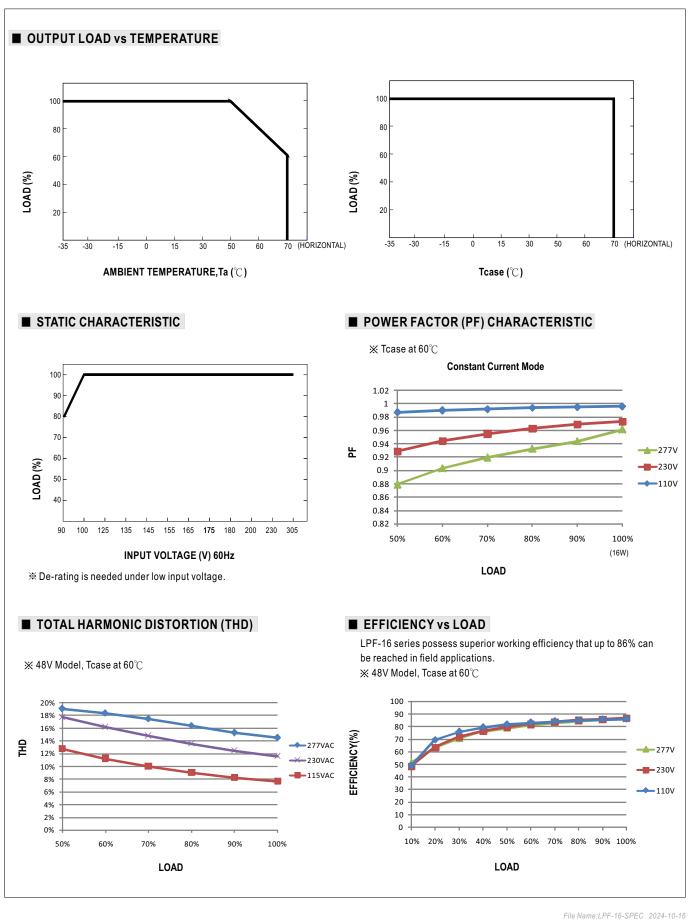




Typical output current normalized by rated current (%)

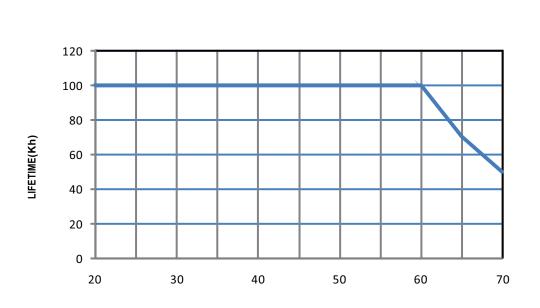
File Name:LPF-16-SPEC 2024-10-16







■ LIFE TIME



Tcase (°℃)



