







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 IP67 level
- Typical lifetime>50000 hours
- 5 years warranty

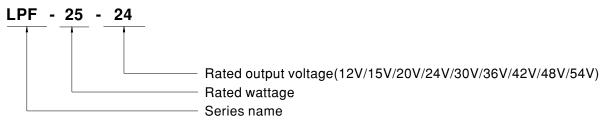
■ Applications

- · LED panel lighting
- · LED downlight
- · LED decorative lighting
- · LED tunnel lighting
- Moving sign

Description

LPF-25 series is a 25W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-25 operates from $90\sim305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the efficiency up to 87%, 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 rated with IP67 ingress protection level and is suitable to work for a variety of applications at dry, damp or wet locations.

■ Model Encoding





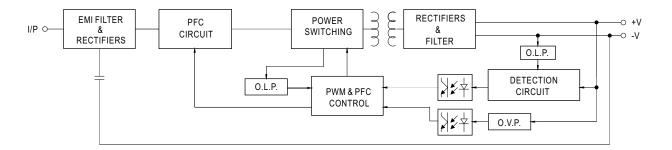
SPECIFICATION

MODEL		LPF-25-12	LPF-25-15	LPF-25-20	LPF-25-24	LPF-25-30	LPF-25-36	LPF-25-42	LPF-25-48	LPF-25-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
ОИТРИТ	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	2.1A	1.67A	1.25A	1.05A	0.84A	0.7A	0.6A	0.53A	0.47A	
	RATED POWER Note.5	25.2W	25.05W	25W	25.2W	25.2W	25.2W	25.2W	25.44W	25.38W	
	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										
	HOLD UP TIME (Typ.)	1500ms, 80ms / 115VAC 500ms, 80ms / 230VAC 16ms/115VAC 16ms/230VAC									
	90 ~ 305VAC 127 ~ 431VDC										
	VOLTAGE RANGE Note.5	(Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	TREGOLITOTICATOL	$PF \ge 0.97/115VAC$, $PF \ge 0.95/230VAC$, $PF \ge 0.92/277VAC@full load$									
	POWER FACTOR	PF \(\subseteq 0.97/115VAC, PF \(\subseteq 0.95/230VAC, PF \(\subseteq 0.92/27/VAC@\tau\) (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)									
	EFFICIENCY (Typ.)	84%	85%	86%	86%	86%	86%	86%	87%	86.5%	
	AC CURRENT					00 /0	00 /0	00 /0	01/0	00.070	
	INRUSH CURRENT(Typ.)	0.4A / 115VAC 0.25A / 230VAC 0.2A/277VAC COLD START 50A(twidth=200µs measured at 50% lpeak) at 230VAC; Per NEMA 410									
	MAX. No. of PSUs on 16A	COLD STAIN	I JUA(IWIUIII-2	ουμο measure	u at 50 % ipear	.) at 250 VAO, F	CI INCINIA 4 10				
	CIRCUIT BREAKER	12 units (circuit breaker of type B) / 21 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/24	<0.75mA 240\/AC								
	LLARAGE CORRENT	<0.75mA/240VAC									
PROTECTION	OVER CURRENT	95~108%									
	CHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed Hiccup mode, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	15 ~ 18V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V	
	OVER VOLTAGE						41~490	40~540	34 ~ 03 V	39 ~ 00 V	
	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.		case=-35 ~ +70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+70°C									
		20 ~ 95% RH non-condensing									
FNIVIDONMENT	WORKING HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
ENVIRONMENT	STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT										
		±0.03%/°C (0~50°C)									
	/IBRATION 10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750. CSA C22.2 No. 250.0-08: ENEC EN61347-1. EN61347-2-13 independent. EN62384.J61347-1.J61347-2-13.								0.40		
	SAFETY STANDARDS Note.8	UL8750, CSA C22.2 No. 250.0-08; ENEC EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13, EAC TP TC 004,GB19510.1,GB19510.14,IP67 approved ;Design refer to UL60950-1, TUV EN60950-1									
	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC									
SAFETY &	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
EMC	EMC EMISSION Note.8	Compliance to EN55015,EN61000-3-2 Class C (@load ≥ 50%); EN61000-3-3,GB17743 and GB17625.1,EAC TP TC 020									
	EMC IMMUNITY										
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level (surge immunity Line-Line 2KV),EAC TP TC 020 473.4Khrs min. MIL-HDBK-217F (25°C)									
OTHERS	DIMENSION	148*40*32mm (L*W*H)									
	PACKING		s/ 15.4Kg/1.02	CUFT							
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.										
NOTE	All parameters NOT specially mentioned are measured at 250 VAC input, rated current and 25 © of ambient temperature. 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.									
		driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the plete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.									
				ghting fixtures, this LED driver can only be used behind a switch							
	without permanently connected to the mains. 9. 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 10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com										
								or less.			
	11. The ambient temperature of	derating of 3.5°	C/1000m with	fanless mode	Is and of 5° C/1	000m with fan	models for op	erating altitude	e higher than 2	2000m(6500ft).	
		any application note and IP water proof function installation caution, please refer our user manual before using.									
	https://www.meanwell.com/	/Upload/PDF/L	ED_EN.pdf								
								_;	le Name:LPF-25-3	2000 2020 02 2	



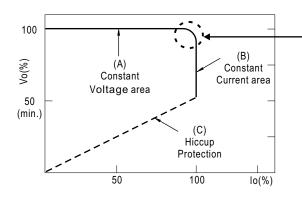
■ BLOCK DIAGRAM

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.

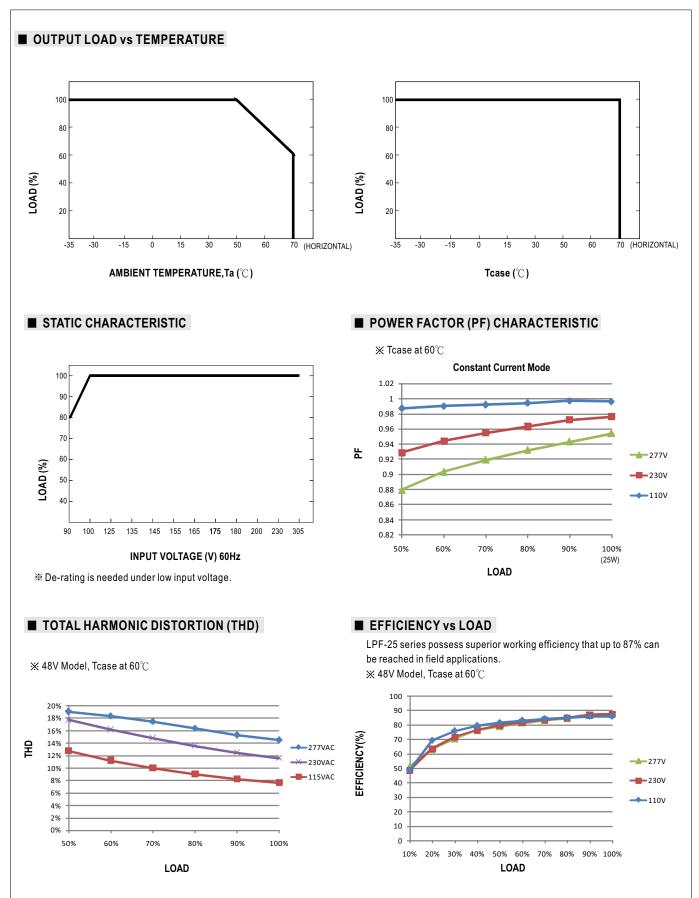


Typical output current normalized by rated current (%)

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

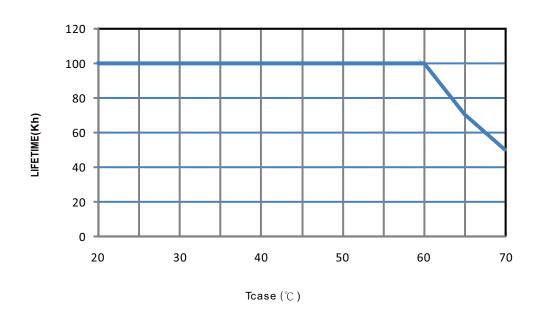
Should there be any compatibility issues, please contact MEAN WELL.







■ LIFE TIME

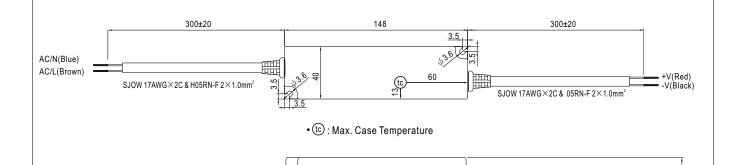




■ MECHANICAL SPECIFICATION

CASE NO.: LPF-16A Unit:mm

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■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов:
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.