

Наличие и актуальные цены на

LPF-40-54

https://www.mean-well.ru/store/LPF-40-54/











■ 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

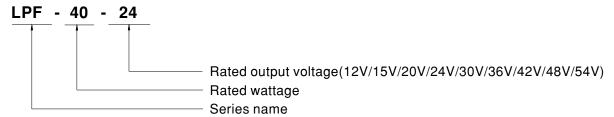
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LPF-40 series is a 40W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-40 operates from $90\sim305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the hign efficiency up to 90%, with the fanless design, the entire series is able to operate for -40°C \sim +80°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





40W Constant Voltage + Constant Current LED Driver

MODEL		LPF-40-12	LPF-40-15	LPF-40-20	LPF-40-24	LPF-40-30	LPF-40-36	LPF-40-42	LPF-40-48	LPF-40-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
ОИТРИТ	CONSTANT CURRENT REGION Note.2	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54\
	RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A
	RATED POWER Note.5	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-r
	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	1000ms, 80m	ns / 115VAC	500ms, 80ms	/ 230VAC					
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC								
INPUT	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	FREQUENCY RANGE									
	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)								
	EFFICIENCY (Typ.)	84%	85%	86%	87%	88%	88%	88.5%	90%	90%
	AC CURRENT	0.6A / 115VA	C 0.3A/	230VAC 0	.25A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=210µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	12 units (circuit breaker of type B) / 20 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.75mA/240VAC								
PROTECTION		95 ~ 108%								
	OVER CURRENT Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
	SHOKT CIRCUIT	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 35V	34 ~ 40V	41 ~ 49V	46 ~ 54V	54 ~ 63V	59 ~ 66V
	OVER VOLTAGE						71 700	10 011	04 001	00 001
	OVER TEMPERATURE	Shut down and latch off o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	Tcase=-40 ~ +80°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
ENVIRONMENT	MAX. CASE TEMP.	Tcase=+80°C								
		20 ~ 95% RH non-condensing								
	WORKING HUMIDITY	·								
	STORAGE TEMP., HUMIDITY	-40~+80°C, 10~95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	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, EAC TP TC 004, IP6 J61347-1, J61347-2-13, GB19510.1, GB19510.14 approved; design refer to UL60950-1								
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION Note.8	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load \ge 60%) ; BS EN/EN61000-3-3, GB/T 17743 , GB17625.1,EAC TP TC 020								
	EMC IMMUNITY	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								
OTHERS	MTBF	3597.9K hrs min. Telcordia SR-332 (Bellcore); 438.9Khrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	162.5*43*32r	mm (L*W*H)							
	PACKING	0.44Kg; 32pcs/15.08Kg/0.93CUFT								
NOTE	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 connections.	isally mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. BY METHODS OF LED MODULE". The dat 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. To tolerance, line regulation and load regulation. It under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. The driver may lead to increase of the set up time. The as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. The inverse measured at Irist cold start. Turning ON/OFF the driver may lead to increase of the set up time. The as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. The inverse measured at 25°C of ambient temperature. The inverse measured at 25°C of antique temperature. The inverse measured at 25°C of anti								

11. The ambient temperature derating of 3.5° C/1000m with fanless models and of 5° C/1000m with fan models for operating altitude higher than 2000m(6500ft).

10. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com

https://www.meanwell.com/Upload/PDF/LED_EN.pdf

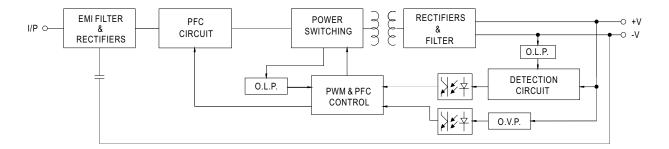
12. For any application note and IP water proof function installation caution, please refer our user manual before using.

X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



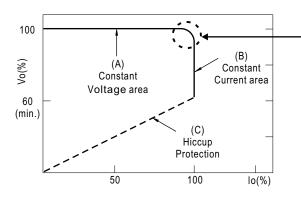
■ BLOCK DIAGRAM

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.

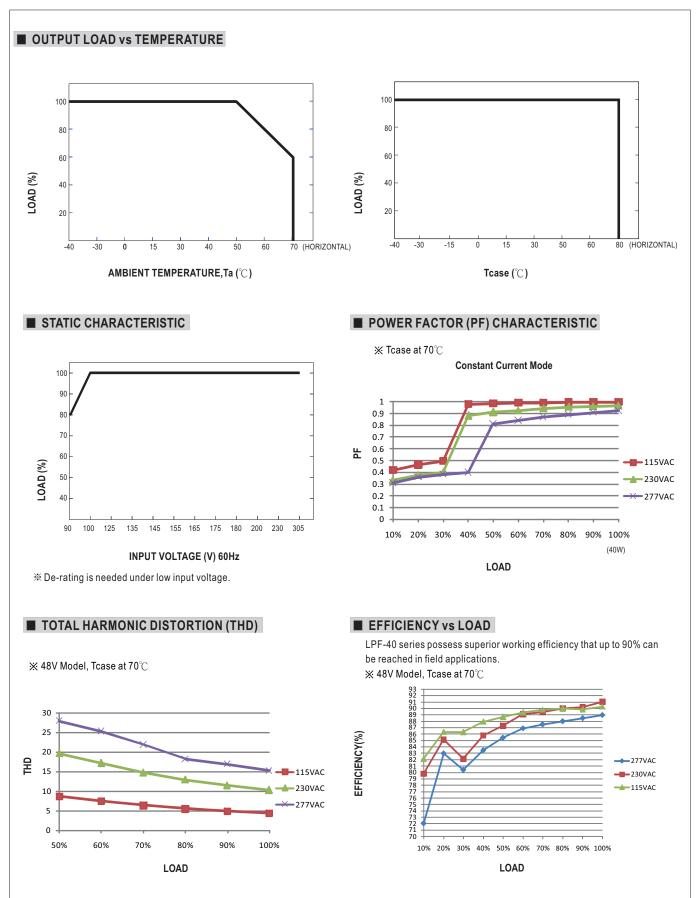


Typical output current normalized by rated current (%)

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

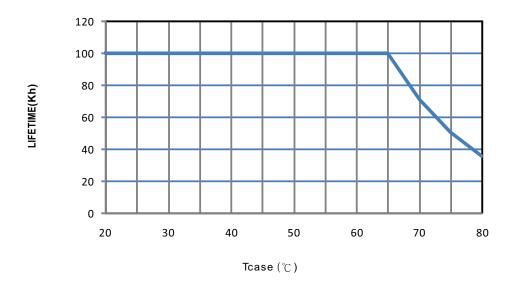
Should there be any compatibility issues, please contact MEAN WELL.







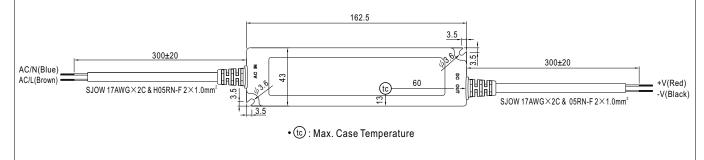
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-60B Unit:mm Tolerance:±1





■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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