

Наличие и актуальные цены на

LPF-90-20

https://www.mean-well.ru/store/LPF-90-20/











■ 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
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

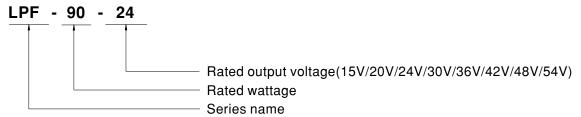
■ GTIN CODE

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

■ Description

LPF-90 series is a 90W AC/DC LED driver featuring the dual modes constant voltage and constant current output. LPF-90 operates from $90\sim305$ VAC and offers models with different rated voltage ranging between 15V and 54V. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -40 $^{\circ}$ C $^{\circ}$ 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





90W Constant Voltage + Constant Current LED Driver

SPECIFICATION

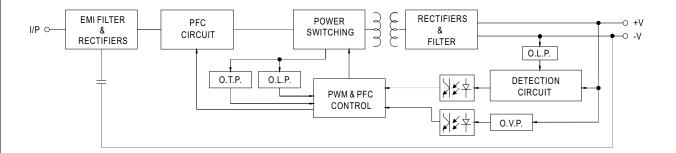
MODEL		LPF-90-15	LPF-90-20	LPF-90-24	LPF-90-30	LPF-90-36	LPF-90-42	LPF-90-48	LPF-90-54	
	DC VOLTAGE	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT REGION Note.2	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V	
	RATED CURRENT	5A	4.5A	3.75A	3A	2.5A	2.15A	1.88A	1.67A	
	RATED POWER Note.5		90W	90W	90W	90W	90.3W	90.24W	90.18W	
	RIPPLE & NOISE (max.) Note.3		150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-p	
			±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	±4.0%	
	VOLTAGE TOLERANCE Note.4					±4.0%	±4.0%			
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%			±0.5%	±0.5%	
	LOAD REGULATION	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	1200ms, 200ms / 115VAC 500ms, 200ms / 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≥0.96/230VAC, 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.)	89%	90%	90.5%	91%	91%	91%	91%	91%	
	AC CURRENT	0.95A / 115VA			/ 277VAC	0170	0 1 /0	0170	0170	
		0.95A / 115VAC 0.5A / 230VAC 0.4A / 277VAC COLD START 70A(twidth=435us measured at 50% lpeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A	4 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC								
	CIRCUIT BREAKER LEAKAGE CURRENT	<0.75mA/240VAC								
		95 ~ 108%								
PROTECTION	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
		18 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 38V	41 ~ 46V	47 ~ 53V	54 ~ 60V	59 ~ 65V	
	OVER VOLTAGE		1	wer on to recove	1	1	1	7	1	
	OVER TEMPERATURE		• •							
ENVIRONMENT		Shut down o/p voltage, re-power on to recover								
	WORKING TEMP.	Tcase=-40 ~ +70°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+70°C								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, J61347-2-13, EAC TP TC 004, GB19510.1, GB19510.14, IP67 approved; Design refer to UL60950-1								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
	ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
EMC	EMC EMISSION Note.8	Compliance to BS EN/EN55015,BS EN/EN61000-3-2 Class C (@load ≥ 60%) ; BS EN/EN61000-3-3, GB/T 17743 , GB17625.1,EAC TP TC 020								
	EMC IMMUNITY		· · · · · · · · · · · · · · · · · · ·		I · BS FN/FN615	47 light industry l	evel (surge immu	ınity l ine-l ine 2K	V).FAC TP TC	
	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 0: 3292.9K hrs min. Telcordia SR-332 (Bellcore); 301.7Khrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	161*61*36mm (L*W*H)								
			,							
	PACKING	0.7Kg;20pcs/15Kg/0.73CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.									
	 Please refer to "DRIVING METHODS OF LED MODULE". Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 									
	Rippie & noise are measured at 201/11/2 of bandwidth by using a 12" twisted pair-wire terminated with a 0.10 & 4/ur parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation.									
	 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.									
	7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the									
	complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.									
	(as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf)									
	8. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch									
	without permanently connected to the mains.									
		This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 70 °C or less.								
		refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com								
	•	e derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f								
	1	and IP water proof function installation caution, please refer our user manual before using.								
	https://www.meanwell.com/Upload/PDF/LED_EN.pdf X Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer asny									

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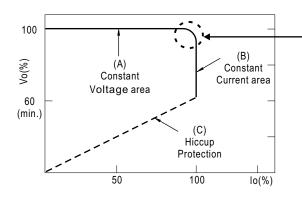
■ BLOCK DIAGRAM

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.

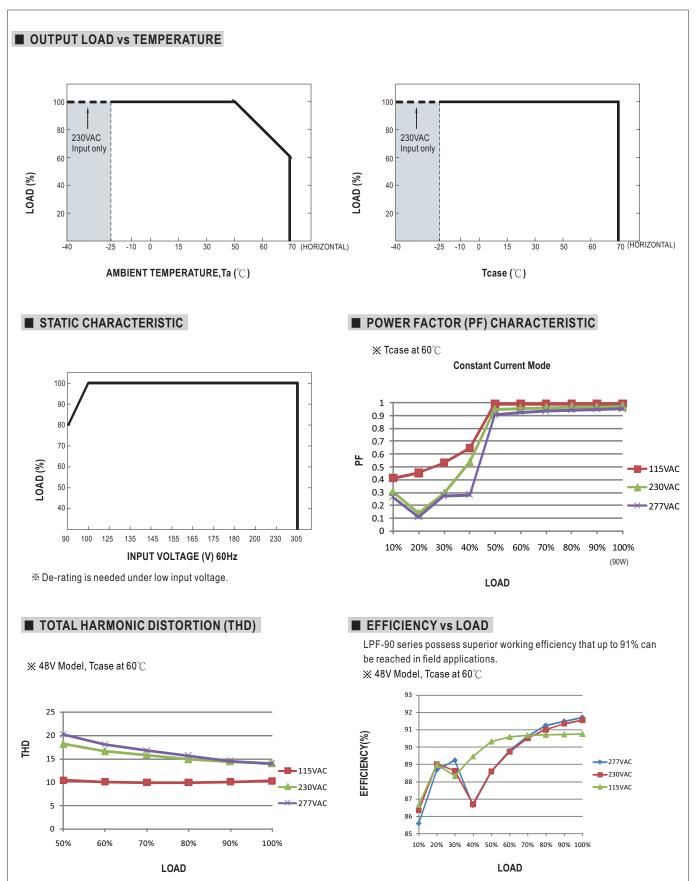


Typical output current normalized by rated current (%)

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

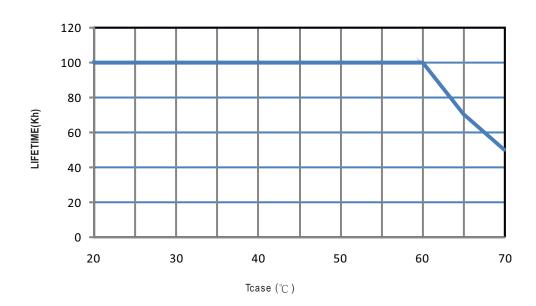
Should there be any compatibility issues, please contact MEAN WELL.







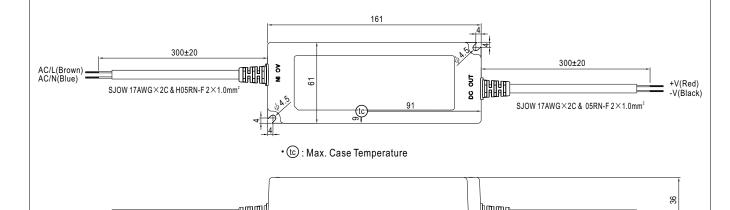
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: LPF-90A Unit:mm Tolerance:±1



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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