

Наличие и актуальные цены на

LPF-90-42

https://www.mean-well.ru/store/LPF-90-42/











■ 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.

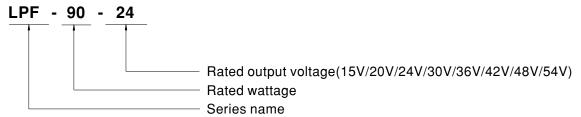
■ GTIN CODE

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

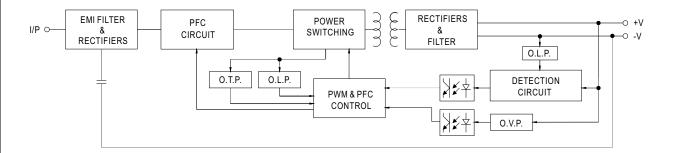
| MODEL | | LPF-90-15 | LPF-90-20 | LPF-90-24 | LPF-90-30 | LPF-90-36 | LPF-90-42 | LPF-90-48 | LPF-90-54 | |
|-------------|---|---|---------------------------------------|------------------|-----------------|---------------------|------------------|----------------------|--------------|--|
| | DC VOLTAGE | 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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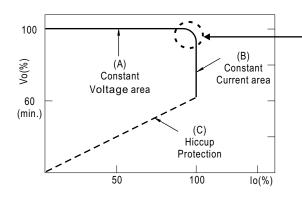
■ BLOCK DIAGRAM

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.

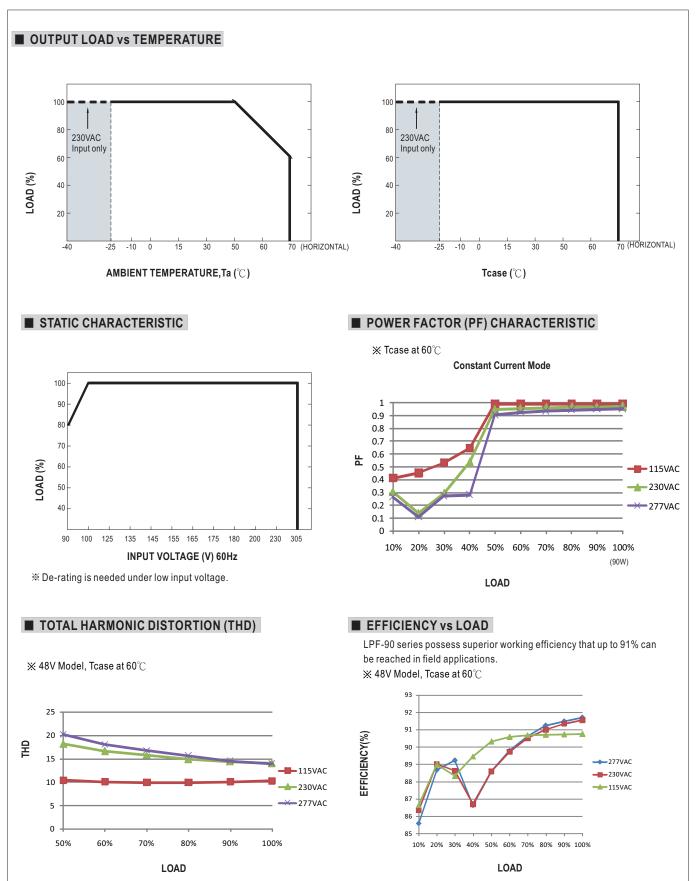


Typical output current normalized by rated current (%)

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

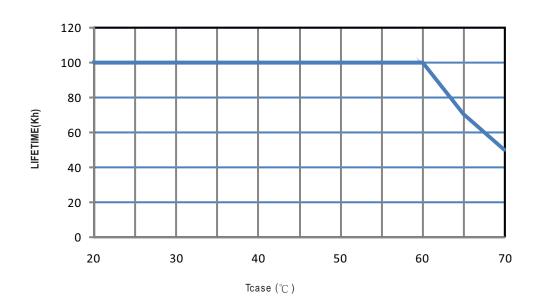
Should there be any compatibility issues, please contact MEAN WELL.







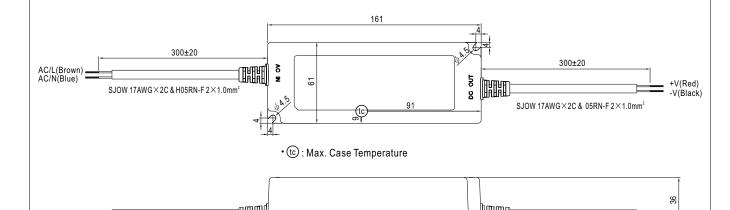
■ LIFE TIME





■ MECHANICAL SPECIFICATION

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



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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