

Наличие и актуальные цены на

NPF-90-12

https://www.mean-well.ru/store/NPF-90-12/









Features

- · Constant Voltage + Constant Current mode output
- · Plastic housing with Class II design
- · Built-in active PFC function
- Class 2 power unit(except NPF-90-12/15)
- No load power consumption < 0.15W
- IP67 rating for indoor or outdoor installations
- Typical lifetime>50000 hours
- 5 years warranty

■ Applications

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

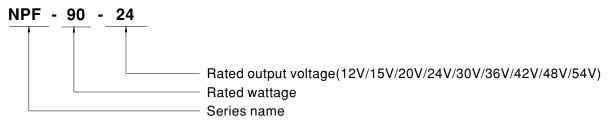
■ GTIN CODE

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

■ Description

NPF-90 series is a 90W AC/DC LED driver featuring the dual modes constant voltage and constant current output. NPF-90 operates from $90\sim305$ VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the hign efficiency up to 91%, with the fanless design, the entire series is able to operate for -40°C \sim +85°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

NPF-90 series

SPECIFICATION

| MODEL | | NPF-90-12 | NPF-90-15 | NPF-90-20 | NPF-90-24 | NPF-90-30 | NPF-90-36 | NPF-90-42 | NPF-90-48 | NPF-90-54 |
|-------------|--|---|---------------|----------------|---------------|-------------|--------------|------------|------------|------------|
| | 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 ~ 54V |
| | RATED CURRENT | 7.5A | 6A | 4.5A | 3.75A | 3A | 2.5A | 2.15A | 1.88A | 1.67A |
| | RATED POWER Note.5 | 90W | 90W | 90W | 90W | 90W | 90W | 90.3W | 90.24W | 90.18W |
| | RIPPLE & NOISE (max.) Note.3 | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 200mVp-p | 200mVp-p | 250mVp-p | 250mVp-p | 350mVp-p |
| | VOLTAGE TOLERANCE Note.4 | ±4.0% | ±4.0% | ±4.0% | ±3.0% | ±3.0% | ±2.0% | ±1.0% | ±1.0% | ±1.0% |
| | LINE REGULATION | ±0.5% | ±0.5% | ±0.5% | ±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% | ±0.5% |
| | SETUP, RISE TIME Note.6 | 500ms, 80ms 115VAC / 230VAC | | | | | | | | |
| | HOLD UP TIME (Typ.) | 16ms/230VAC 16ms/115VAC | | | | | | | | |
| INPUT | VOLTAGE RANGE Note.5 | 90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section) | | | | | | | | |
| | FREQUENCY RANGE | 47 ~ 63Hz | | | | | | | | |
| | POWER FACTOR | PF≥0.98/115VAC, PF≥0.96/230VAC, PF≥0.94/277VAC@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.) | 89% | 89.5% | 90.5% | 91% | 89.5% | 90.5% | 90.5% | 90.5% | 90.5% |
| | AC CURRENT | 0.95A / 115V/ | | | 0.4A / 277VAC | | 1 | | | |
| | INRUSH CURRENT(Typ.) | COLD START 60A(twidth=550µs measured at 50% Ipeak) at 230VAC; Per NEMA 410 | | | | | | | | |
| | MAX. No. of PSUs on 16A CIRCUIT BREAKER | 3 units (circuit breaker of type B) / 6 units (circuit breaker of type C) at 230VAC | | | | | | | | |
| | LEAKAGE CURRENT | <0.25mA / 277VAC | | | | | | | | |
| | NO LOAD POWER CONSUMPTION | <0.25MA/2/1VAC | | | | | | | | |
| PROTECTION | NO LOAD FOWER CONSUME HON | 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 | | | | | | | | |
| | OVER VOLTAGE | 15 ~ 17V 17.5 ~ 21V 23 ~ 27V 28 ~ 34V 34 ~ 40V 41 ~ 46V 46 ~ 54V 54 ~ 60V 59 ~ 66V | | | | | | | | |
| | OVED TEMPEDATURE | Shut down and latch off o/p voltage, re-power on to recover | | | | | | | | |
| | OVER TEMPERATURE | Shut down o/p voltage, re-power on to recover | | | | | | | | |
| ENVIRONMENT | WORKING TEMP. | Tcase=-40 ~ +85°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section) | | | | | | | | |
| | MAX. CASE TEMP. | Tcase=+85°C | | | | | | | | |
| | WORKING HUMIDITY | 20 ~ 95% RH non-condensing | | | | | | | | |
| | 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 STANDARDS Note.8 | UL8750, CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, GB19510.1,GB19510.14 EAC TP TC 004,IP67 approved; Design refer to BS EN/EN60335-1 | | | | | | | | |
| SAFETY & | WITHSTAND VOLTAGE | I/P-O/P:3.75KVAC | | | | | | | | |
| EMC | 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 ≥ 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 | 2749.4K hrs i | | lia SR-332 (Be | llcore); 292 | .8Khrs min. | MIL-HDBK-217 | 7F (25°C) | | |
| | DIMENSION | 171*63*37.5mm (L*W*H) | | | | | | | | |
| | PACKING | 0.77Kg; 18pc | s/14.9Kg/0.82 | CUFT | | | | | | |
| NOTE | Please refer to "DRIVING M Ripple & noise are measured Tolerance : includes set up to De-rating may be needed u Length of set up time is me The driver is considered as complete installation, the fin (as available on https://www This series meets the typica Please refer to the warranty The ambient temperature of | ally mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. METHODS OF LED MODULE". ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. easured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. s a component that will be operated in combination with final equipment. Since EMC performance will be affected by the inal equipment manufacturers must re-qualify EMC Directive on the complete installation again. w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) cal life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less. by statement on MEAN WELL's website at http://www.meanwell.com c derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f and IP water proof function installation caution, please refer our user manual before using. m/Upload/PDF/LED_EN.pdf | | | | | | | | |

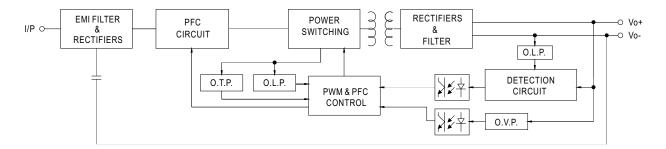
https://www.meanwell.com/Upload/PDF/LED_EN.pdf

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



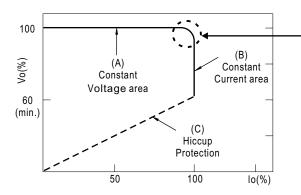
■ BLOCK DIAGRAM

PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ 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.

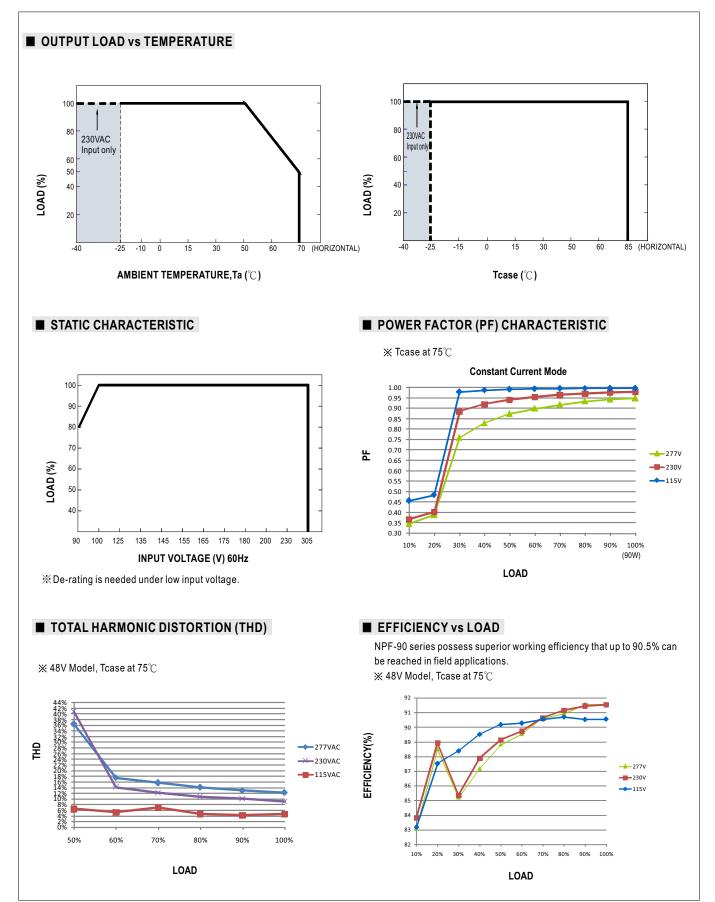


Typical output current normalized by rated current (%)

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

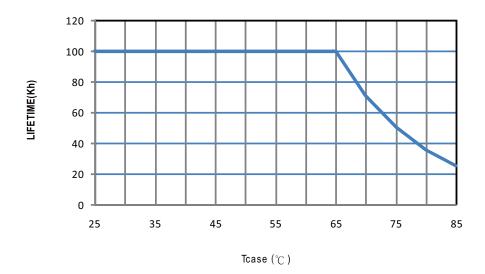
Should there be any compatibility issues, please contact MEAN WELL.







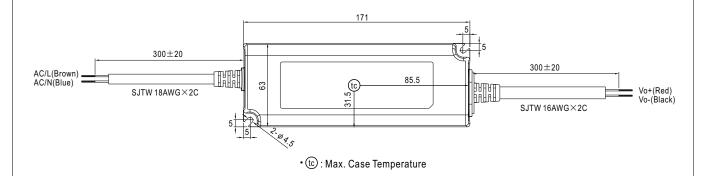
■ LIFE TIME

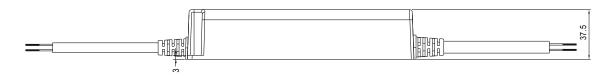




■ MECHANICAL SPECIFICATION

CASE NO.: PWM-90P Unit:mm Tolerance:±1





■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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