

Наличие и актуальные цены на

## NPF-90D-42

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



90W Single Output LED Driver

## NPF-90D series







Applications

LED panel lighting

LED tunnel lighting

GTIN CODE

· LED decorative lighting

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

· LED downlight

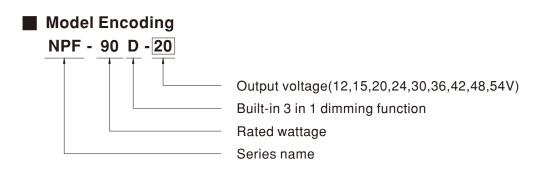
Moving sign

### Features

- · Plastic housing with class II design
- · Built-in active PFC function
- Class 2 power unit (except NPF-90D-12/15)
- Standby power consumption <0.5W</li>
- IP67 rating for indoor or outdoor installations
- Function: 3 in 1 dimming (dim-to-off)
- Typical lifetime >50000hours
- 5 years warranty

#### Description

NPF-90D series is a 90W AC/DC LED driver featuring the constant current mode output. NPF-90D operates from 90~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -40~+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. NPF-90D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

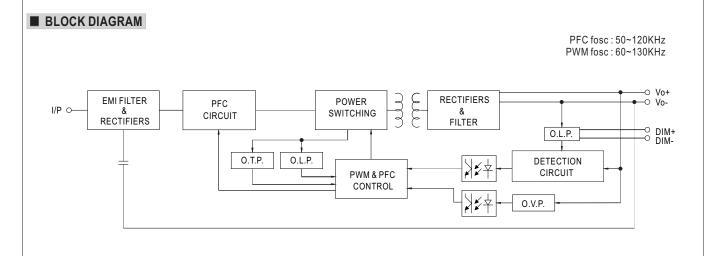




#### **SPECIFICATION**

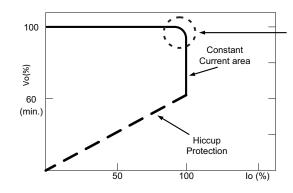
MODEL		NPF-90D-12	NPF-90D-15	NPF-90D-20	NPF-90D-24	NPF-90D-30	NPF-90D-36	NPF-90D-42	NPF-90D-48	NPF-90D-54
	RATED CURRENT	7.5A	6A	4.5A	3.75A	3A	2.5A	2.15A	1.88A	1.67A
OUTPUT	RATED POWER	90W	90W	90W	90W	90W	90W	90.3W	90.24W	90.18W
	CONSTANT CURRENT REGION		9~15V	12~20V	14.4 ~ 24V		21.6 ~ 36V			32.4 ~ 54
	CURRENT RIPPLE	5.0% max. @rated current								
	CURRENT TOLERANCE	±5.0%								
	SET UP TIME Note.3	500ms/115VAC, 230VAC								
INPUT	VOLTAGE RANGE Note.2	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	$\label{eq:product} \begin{array}{l} PF \geq 0.98/115 VAC, PF \geq 0.96/230 VAC, PF \geq 0.94/277 VAC@ full load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$								
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC, 230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)								
	EFFICIENCY(Typ.)	88%	89%	90%	90%	89%	90%	90%	90%	90%
	AC CURRENT (Typ.)	0.95A / 115	VAC 0.5	5A/230VAC	0.4A/2	77VAC				
	INRUSH CURRENT(Typ.)	COLD START 60A(twidth=550µs measured at 50% lpeak) 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								
	STANDBY POWER CONSUMPTION	<0.5W								
PROTECTION	OVER CURRENT	95 ~ 108% Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	$15 \sim 17V$ $17.5 \sim 21V$ $23 \sim 27V$ $28 \sim 34V$ $34 \sim 40V$ $41 \sim 46V$ $46 \sim 54V$ $54 \sim 60V$ $59 \sim 66V$ Shut down 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								
		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY									
	TEMP. COEFFICIENT	$\pm 0.03\%$ /°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent,EAC TP TC 004, GB19510.1,GB19510.14, 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	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								
	MTBF	2749.1K hrs min. Telcordia SR-332 (Bellcore) ; 231.2K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	171*63*37.5mm (L*W*H)								
	PACKING	0.77Kg; 18pcs/14.9Kg/0.82CUFT								
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.</li> <li>De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.</li> <li>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.</li> <li>The standby power consumption is specified for 230VAC.</li> <li>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)</li> <li>This series meets the typical life expectancy of &gt;50,000 hours of operation when Tcase, particularly (to point (or TMP, per DLC), is about 75°C or less.</li> <li>Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com</li> <li>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(6500)</li> <li>For any application note and IP water proof function installation caution, please refer our user manual before using. https://www.meanwell.com/Upload/PDF/LED_EN.pdf</li> <li>To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains.</li> <li>Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</li> </ol>									





#### DRIVING METHODS OF LED MODULE

% This series works in constant current mode to directly drive the LEDs.

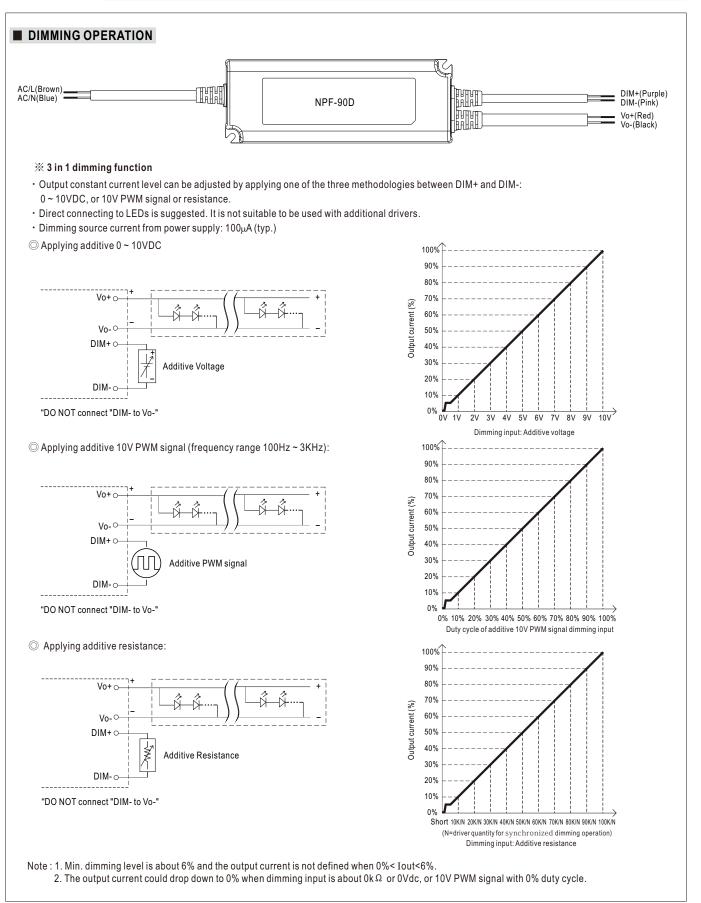


Typical LED power supply I-V curve

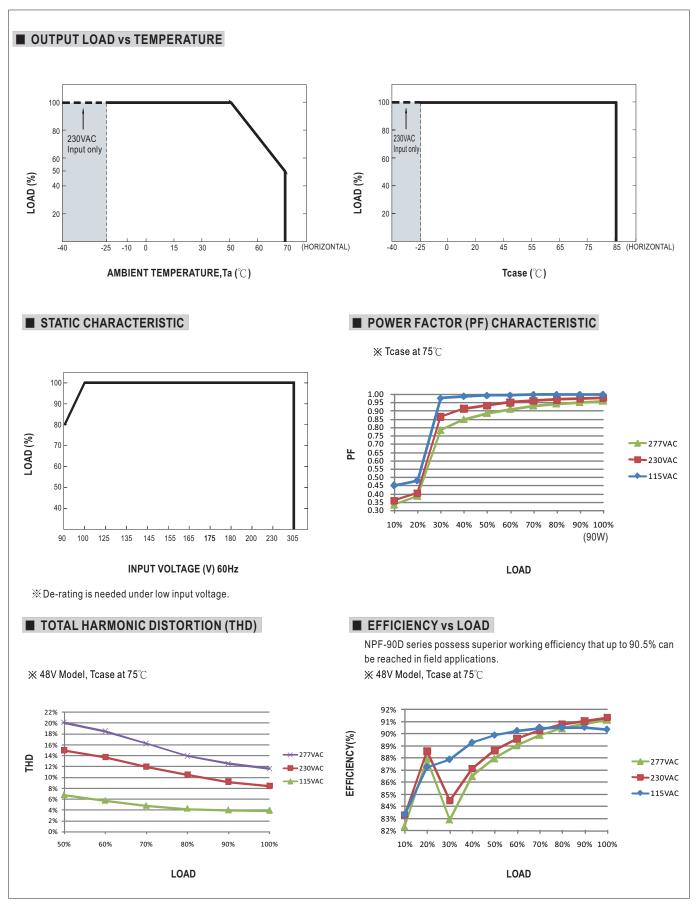
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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



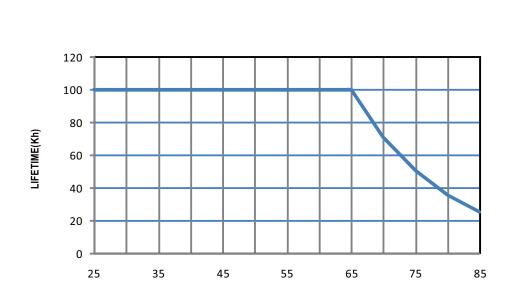








■ LIFE TIME



Tcase ( $^\circ\!\mathbb{C}$  )



