

Наличие и актуальные цены на

NPF-60-48

https://www.mean-well.ru/store/NPF-60-48/























■ Features

- · Constant Voltage + Constant Current mode output
- Plastic housing with Class II design
- · Built-in active PFC function
- · Class 2 power unit
- 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
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location

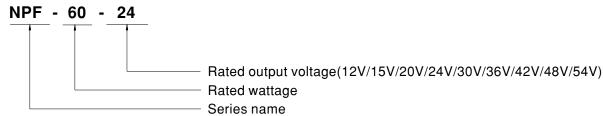
■ GTIN CODE

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

Description

NPF-60 series is a 60W AC/DC LED driver featuring the dual modes constant voltage and constant current output. NPF-60 operates from $90{\sim}305$ VAC 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°C ~ +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





SPECIFICATION

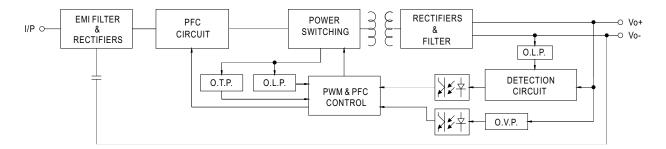
MODEL		NPF-60-12	NPF-60-15	NPF-60-20	NPF-60-24	NPF-60-30	NPF-60-36	NPF-60-42	NPF-60-48	NPF-60-54
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V
ОИТРИТ	CONSTANT CURRENT REGION Note.2	7.2 ~12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V
	RATED CURRENT	5A	4A	3A	2.5A	2A	1.67A	1.43A	1.25A	1.12A
	RATED POWER Note.5	60W	60W	60W	60W	60W	60.12W	60.06W	60W	60.48W
	RIPPLE & NOISE (max.) Note.3		150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	200mVp-p	200mVp-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%	±1.0%	±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	$\label{eq:pf} \begin{split} PF & \geq 0.97/115 VAC, PF \geq 0.95/230 VAC, PF \geq 0.92/277 VAC \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) \end{split}$								
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧60%/115VC,230VAC; @load≧75%/277VAC) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)								
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%
	AC CURRENT	0.8A / 115VA	C 0.4A/	230VAC 0	.32A/277VAC					
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=270µs measured at 50% Ipeak) at 230VAC; Per NEMA 410								
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	8 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.25mA/277VAC								
	NO LOAD POWER CONSUMPTION	<0.15W								
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 CIKCOTT	15 ~ 17V	17.5 ~ 21V	23 ~ 27V	28 ~ 34V	34 ~ 40V	41 ~ 46V	46 ~ 54V	54 ~ 60V	59 ~ 66V
	OVER VOLTAGE		-	-			41~400	40~540	34 ~ 60 V	39 ~ 00 V
		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℃ (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./1cv	cle, period for	72min, each a	long X, Y, Z axe	es			
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750(type"HL"), UL879(for 12V,24V only), CSA C22.2 No. 250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13 independent, BS EN/EN62384, EAC TP TC 004, GB19510.1,GB19510.14, IP67 approved; Design refer to BS EN/EN60335-								
	WITHSTAND VOLTAGE									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	EMC EMISSION Note.8	TPO/P: 100M Onms / 300VDC / 25 C / 70% RH 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	3082.1K hrs min. Telcordia SR-332 (Bellcore); 287.9Khrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	150*53*35mr		,	, .			. ,		
	PACKING		s/15.7Kg/1.0C	UFT						
					out rated curre	ent and 25°C o	f ambient temn	erature		
NOTE	 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. 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. 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. 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) This series meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly to point (or TMP, per DLC), is about 75°C or less. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com 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(6500t 11. 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 									

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



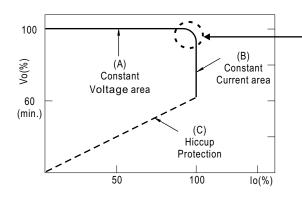
■ BLOCK DIAGRAM

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.

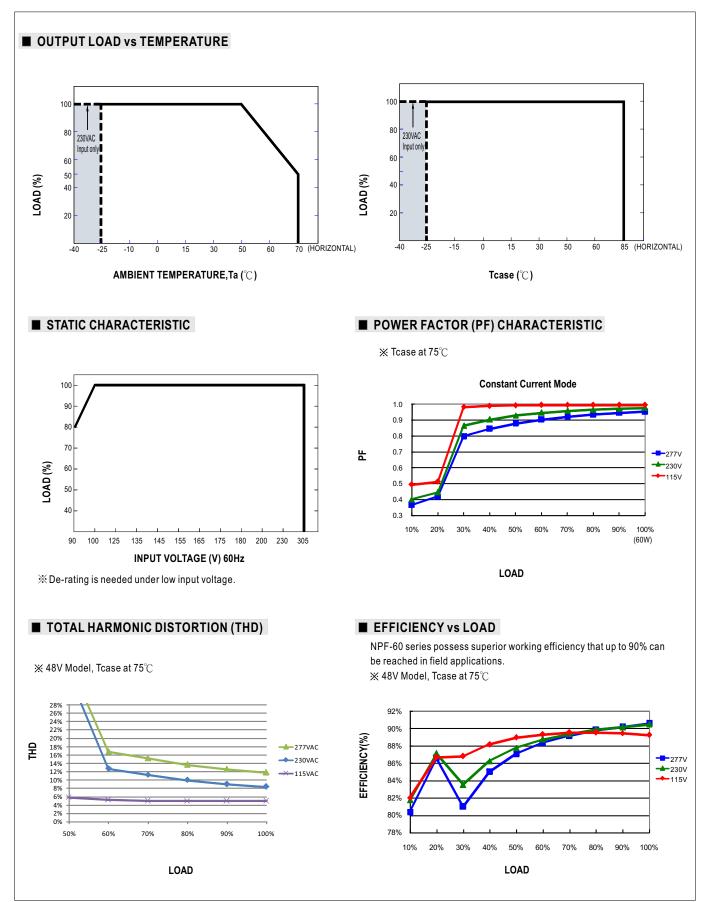


Typical output current normalized by rated current (%)

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

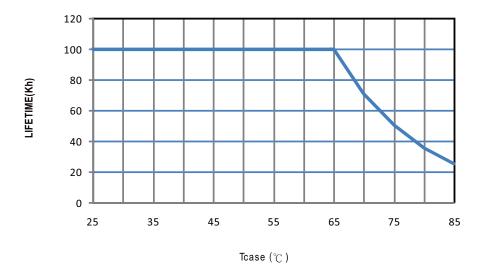
Should there be any compatibility issues, please contact MEAN WELL.







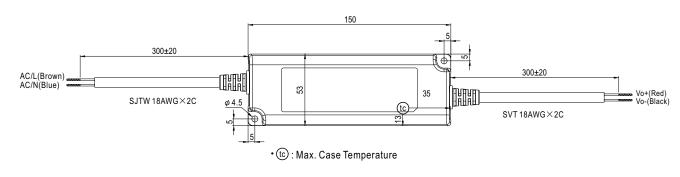
■ LIFE TIME





■ MECHANICAL SPECIFICATION

CASE NO.: NPF-60A Unit:mm Tolerance:±1





■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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