

Наличие и актуальные цены на

# NPF-60D-24

https://www.mean-well.ru/store/NPF-60D-24/







#### Features

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

#### Applications

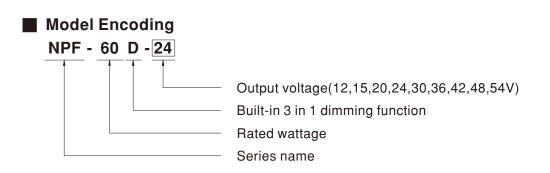
- · LED panel lighting
- · LED downlight
- LED decorative lighting
- LED tunnel lighting
- Moving sign
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location

#### GTIN CODE

MW Search: <a href="https://www.meanwell.com/serviceGTIN.aspx">https://www.meanwell.com/serviceGTIN.aspx</a>

#### Description

NPF-60D series is a 60W AC/DC LED driver featuring the constant current mode output. NPF-60D 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°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. NPF-60D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

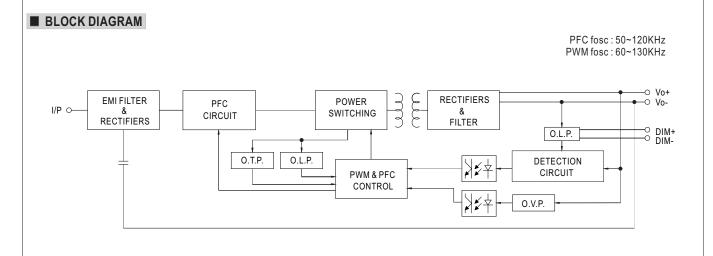




#### SPECIFICATION

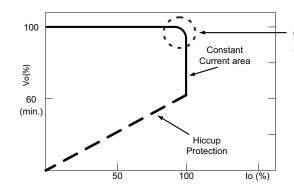
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MODEL		NPF-60D-12	NPF-60D-15	NPF-60D-20	NPF-60D-24	NPF-60D-30	NPF-60D-36	NPF-60D-42	NPF-60D-48	NPF-60D-54	
	RATED CURRENT	5A	4A	3A	2.5A	2A	1.67A	1.43A	1.25A	1.12A	
OUTPUT	RATED POWER	60W	60W	60W	60W	60W	60.12W	60.06W	60W	60.48W	
	CONSTANT CURRENT REGION	7.2 ~ 12V	9~15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54V	
	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.)	$PF \ge 0.97/115VAC$ , $PF \ge 0.95/230VAC$ , $PF \ge 0.92/277VAC$ @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)									
	EFFICIENCY(Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%	
	AC CURRENT (Typ.)	0.8A / 115V	AC 0.4A	/ 230VAC	0.32A/27	77VAC					
	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	9 units (circuit breaker of type B) / 16 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.25mA / 277VAC									
	STANDBY POWER CONSUMPTION	<0.5W	<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									
		15~17V	17.5 ~ 21V		28 ~ 34V	34 ~ 40V	41~46V	46~54V	54~60V	59~66V	
	OVER VOLTAGE		p/p voltage, re								
	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										
	TEMP. COEFFICIENT	±0.03%/C (0~50°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS	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, BS EN/EN62384 independent, EAC TP TC 004,GB19510.1,GB19510.14, IP67 approved ; Design refer to BS EN/EN60335-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
	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	3082.1K hrs min. Telcordia SR-332 (Bellcore) ; 287.9K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	150*53*35mm (L*W*H)									
	PACKING	0.49Kg;30pcs/15.7Kg/1.0CUFT									
NOTE	<ol> <li>De-rating may be needed u</li> <li>Length of set up time is mea</li> <li>The standby power consum</li> <li>The driver is considered as complete installation, the fir (as available on https://www</li> <li>This series meets the typica</li> <li>Please refer to the warranty</li> <li>The ambient temperature de</li> <li>For any application note and https://www.meanwell.com/</li> </ol>	ters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. by power consumption is specified for 230VAC. is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the nstallation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. ble on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) is meets the typical life expectancy of >50,000 hours of operation when Tcase, particularly (b) point (or TMP, per DLC), is about 75°C or less. er to the warranty statement on MEAN WELL's website at http://www.meanwell.com nt temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) plication note and IP water proof function installation caution, please refer our user manual before using. w.meanwell.com/Upload/PDF/LED_EN.pdf ability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									





#### DRIVING METHODS OF LED MODULE

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

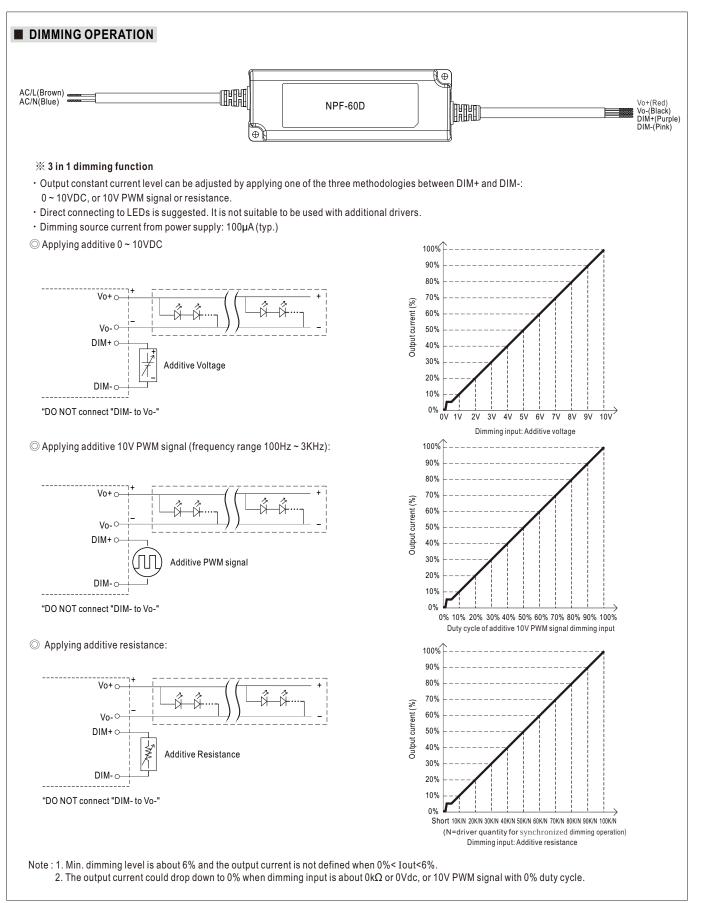


Typical LED power supply I-V curve

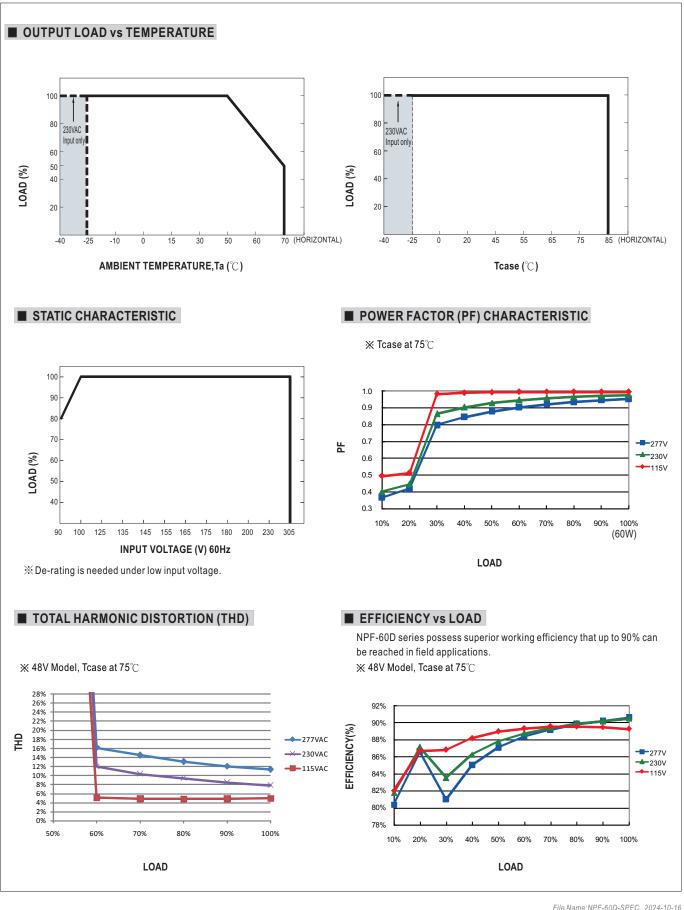
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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





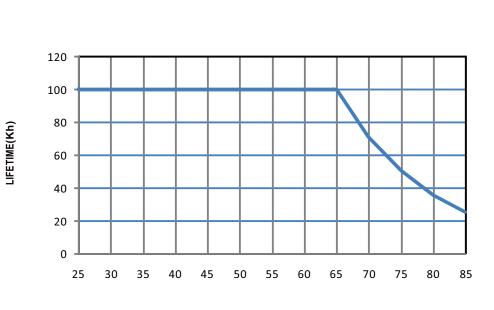




File Name:NPF-60D-SPEC 2024-10-16



■ LIFE TIME



Tcase(°C)



