

Наличие и актуальные цены на

NPF-120D-12

https://www.mean-well.ru/store/NPF-120D-12/





















Features

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

Applications

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

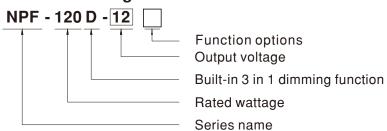
GTIN CODE

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

Description

NPF-120D series is a 120W AC/DC LED driver featuring the constant current mode output. NPF-120D 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 ~+90°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-120D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

Model Encoding



Туре	IP Level	Function	Note
Blank	IP67	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	In Stock
BE	IP67	3 in 1 dimming function and Auxiliary DC output	By request



SPECIFICATION

MODEL		NPF-120D-12	NPF-120D-15	NPF-120D-20	NPF-120D-24	NPF-120D-30	NPF-120D-36	NPF-120D-42	NPF-120D-48	NPF-120D-54		
	RATED CURF	RENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A	
OUTPUT	RATED POWER		120W	120W	120W	120W	120W	122.4W	121.8W	120W	124.2W	
	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%									
	AUXILIARY DC OUTPUT Note.4		Nominal 12V(deviation 11.4~12.6V)@0.2A for BE-Type only									
	SET UP TIME Note.3		500ms/115VAC, 230VAC									
-	VOLTAGE RANGE Note.2		90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY	FREQUENCY RANGE		47 ~ 63Hz								
	POWER FACTOR (Typ.)		PF ≥ 0.97/115VAC, 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	BLANK-TYPE	88.5%	88.5%	89%	89.5%	89%	89.5%	89.5%	90%	90%	
	(Тур.)	BE-TYPE(Note.5)	87.5%	87.5%	88.5%	89%	88.5%	89%	89%	89%	89%	
	AC CURREN	Т (Тур.)	1.3A / 115VA	AC 0.65/	A / 230VAC	0.55A / 27	7VAC					
	INRUSH CURRENT(Typ.)		COLD START60A(twidth=520µs measured at 50% Ipeak) at 230VAC; Per NEMA 410									
	MAX. NO. of PSUs on 16A CIRCUIT BREAKER		4 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		15~17V 17.5~21V 23~27V 28~34V 34~40V 41~46V 46~54V 54~60V 59~66V									
			Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE		Shut down o/p voltage, re-power on to recover									
ENVIKONMENT	WORKING TEMP.		Tcase=-40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.		Tcase=+90°C									
	WORKING HUMIDITY		20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY											
	TEMP. COEFFICIENT		±0.03%/°C (0~40°C)									
	VIBRATION		10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS		UL8750(type"HL"), 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		2632.6K hrs min. Telcordia SR-332 (Bellcore); 233.9K hrs min. MIL-HDBK-217F (25°C)									
-	DIMENSION		191*63*37.5mm (L*W*H)									
	PACKING		0.97Kg; 15pcs/15.6Kg/0.87CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.											

NOTE

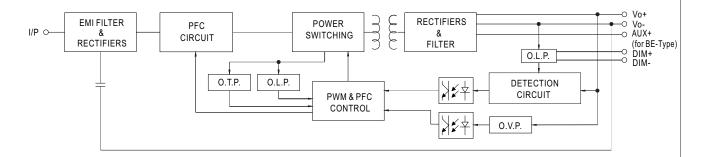
- All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature.
 De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.
 Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
- 4. The Auxiliary DC output is defined between AUX+ and DIM-.
- 5. The efficiency for BE-Type is measured when the Auxiliary DC output is 100% loaded at 12V, 0.2A.
- 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.
- 8. Please refer to the warranty statement on MEAN WELL's website at http://www.meanwell.com
- 9. 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(6500ft). 10. 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
 11. 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.
- 12. BE-type is used for any light source that exempt from the ErP-Directive (EU) 2019/2020 requirement, for example this model could be
- use for signalling products(including, but not limited to road-, railway-, marineorair traffic-signalling, traffic control or airfield lamps). ** Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx

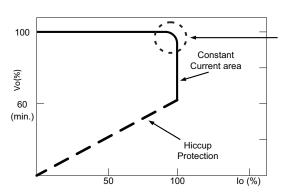
■ BLOCK DIAGRAM

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



■ DRIVING METHODS OF LED MODULE

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



Typical LED power supply I-V curve

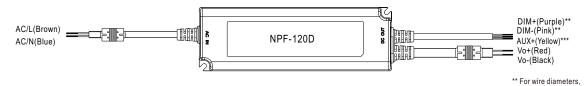
In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

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

please refer to Mechanical Specification

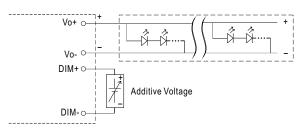


■ DIMMING OPERATION



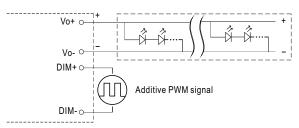
* 3 in 1 dimming function

- Output constant current level can be adjusted by applying one of the three methodologies between DIM+ and DIM: 0 ~ 10VDC, or 10V PWM signal or resistance.
- \cdot Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- \cdot Dimming source current from power supply: 100 μ A (typ.)
- O Applying additive 0 ~ 10VDC



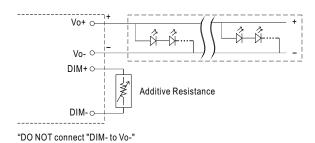
"DO NOT connect "DIM- to Vo-"

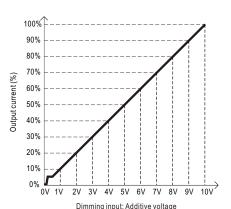
O Applying additive 10V PWM signal (frequency range 100Hz ~ 3KHz):

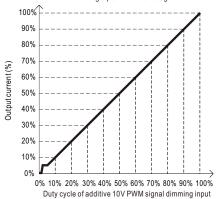


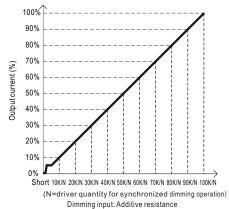
"DO NOT connect "DIM- to Vo-"

O Applying additive resistance:





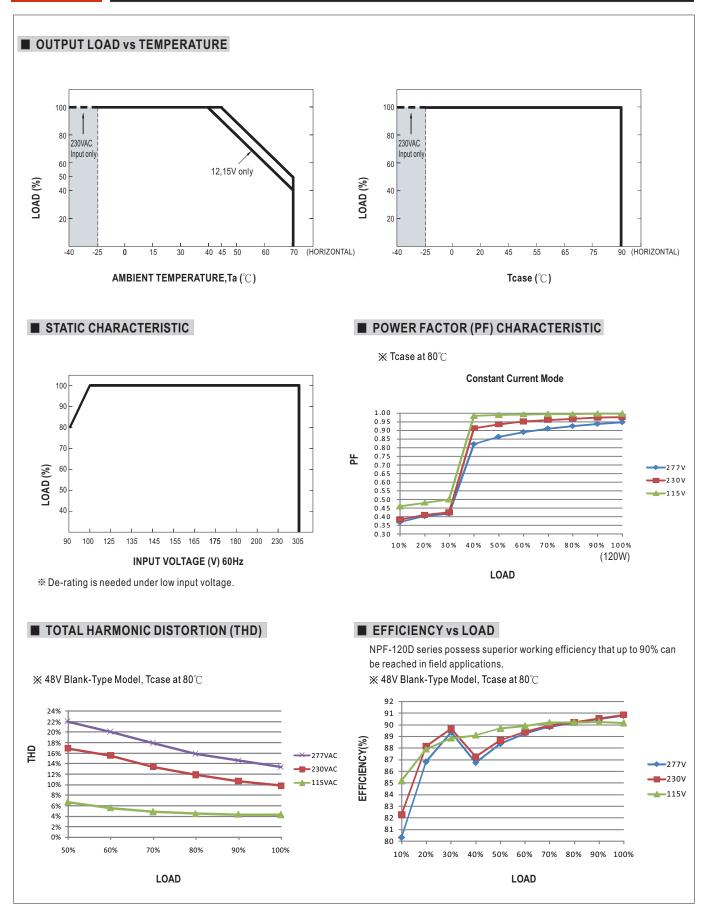




Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

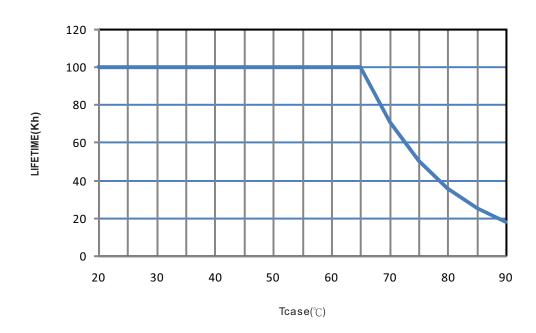
- 2. The output current could drop down to 0% when dimming input is about $0k\Omega$ or 0Vdc, or 10V PWM signal with 0% duty cycle.
- ※ Auxiliary DC operation (for BE-type)
- AUX+, with mark ***, is added for BE-Type, used as the Auxiliary DC output with respect to DIM-.







■ LIFE TIME





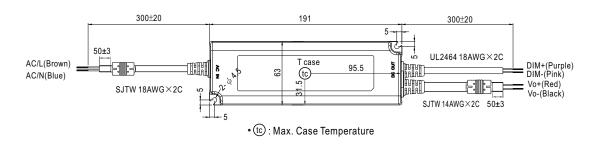
■ MECHANICAL SPECIFICATION

Case No. PWM-120

Unit:mm

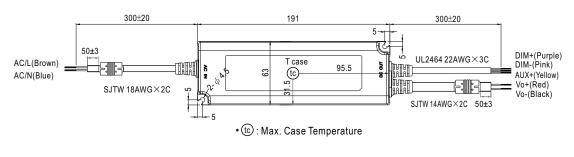
Tolerance:±1

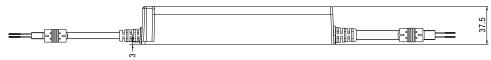
※ Blank-Type





※ BE-Type





■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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