



〒 selv IP67 (PC) CPU us 🐼⁰⁵ [fff] @ CB C E ヒヒム 110 M/

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

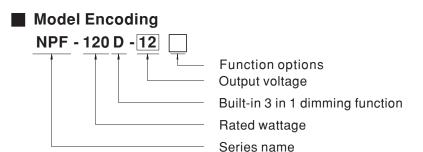
Applications

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

LED Driver • 120W

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.



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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

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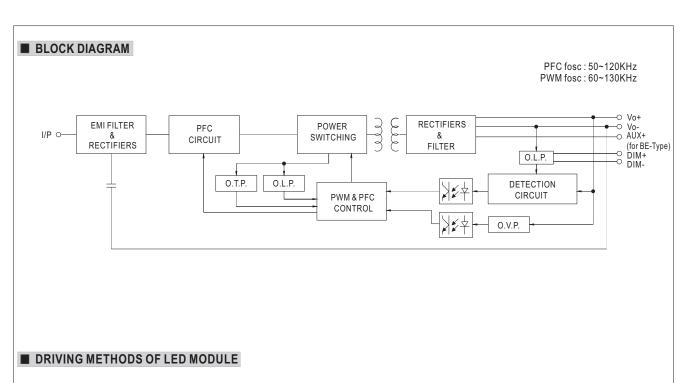
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SPECIFICATION

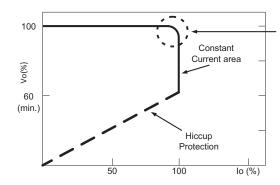
SPECIFIC										
MODEL		NPF-120D-12	NPF-120D-15	NPF-120D-20	NPF-120D-24	NPF-120D-30	NPF-120D-36	NPF-120D-42	NPF-120D-48	NPF-120D-54
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A
	RATED POWER	120W	120W	120W	120W	120W	122.4W	121.8W	120W	124.2W
	CONSTANT CURRENT REGION	7.2 ~ 12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6~36V	25.2 ~ 42V	28.8~48V	32.4 ~ 54∖
OUTPUT	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 RANGE	47~63Hz								
	POWER FACTOR (Typ.)	$\label{eq:product} \begin{array}{l} PF{\geq}0.97/115VAC, PF{\geq}0.96/230VAC, PF{\geq}0.94/277VAC@full \ load \\ (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section) array$								
INPUT	TOTAL HARMONIC DISTORTION	(Please ref			IVAC; @load≧ DISTORTIO					
	EFFICIENCY BLANK-TYPE	88.5%	88.5%	89%	89.5%	89%	89.5%	89.5%	90%	90%
	(Typ.) BE-TYPE(Note.5)	87.5%	87.5%	88.5%	89%	88.5%	89%	89%	89%	89%
	AC CURRENT (Typ.)	1.3A / 115V/	AC 0.65.	A / 230VAC	0.55A/27	7VAC				
	INRUSH CURRENT(Typ.)	COLD STAF	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								
	OVER CURRENT	95 ~ 108%								
		Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	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								
	WORKING TEMP.	Tcase=-40 ~ +90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)								
-	MAX. CASE TEMP.	Tcase=+90°C								
ENVIRONMENT	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%°C (0~40°C)								
	VIBRATION	10 ~ 500Hz	5G 12min./1	cycle, period	for 72min. ea	ich along X, Y	Zaxes			
	SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes 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								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC								
EMC	ISOLATION RESISTANCE)0VDC/25°C	C/70% RH					
LINC	EMC EMISSION	Compliance	I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (@ load ≧ 60%) ; BS EN/EN61000-3-3;GB17743 and 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	2632.6K hrs min. Telcordia SR-332 (Bellcore); 233.9K hrs min. MIL-HDBK-217F (25°C)							C)	
	DIMENSION	191*63*37.5mm (L*W*H)								
	PACKING	0.97Kg; 15p	ocs/15.6Kg/0.	87CUFT						
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. The Auxiliary DC output is defined between AUX+ and DIM 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. This series 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. 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(6500 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 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. 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/serviceDi									
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 $\,\%\,$ 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.

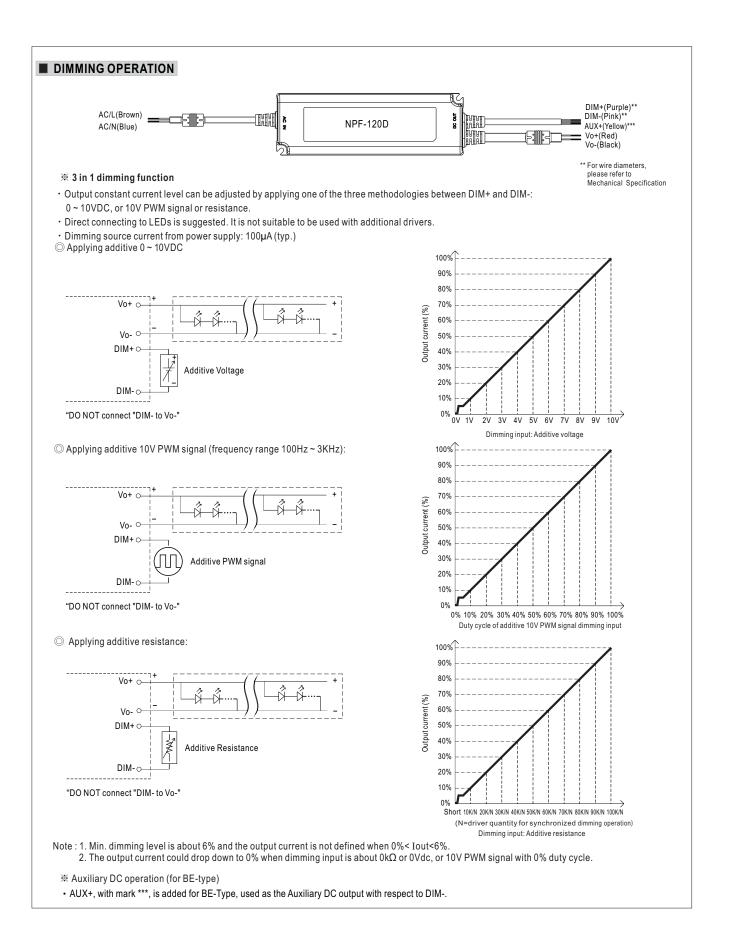
Should there be any compatibility issues, please contact MEAN WELL.

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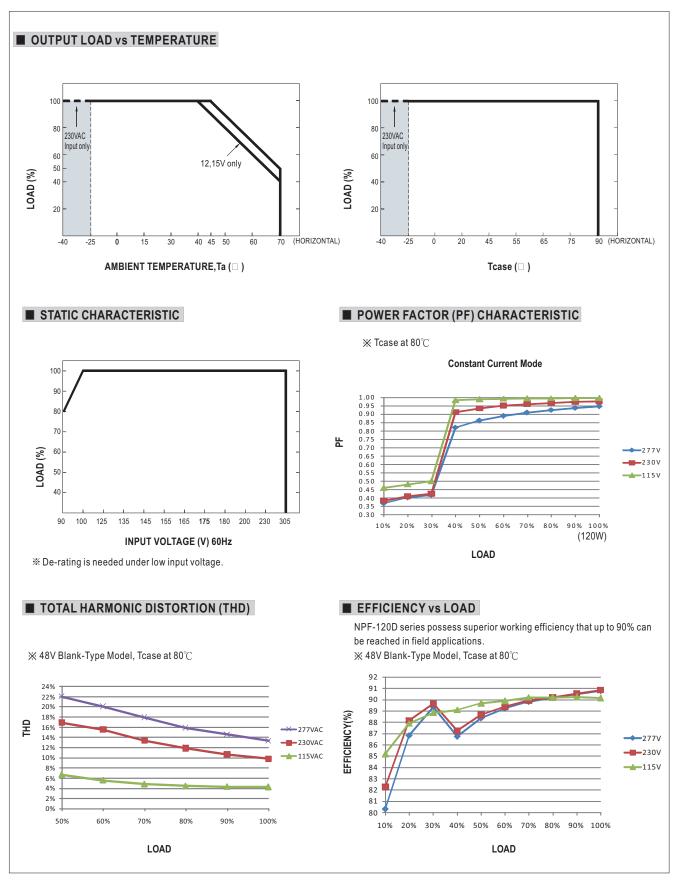
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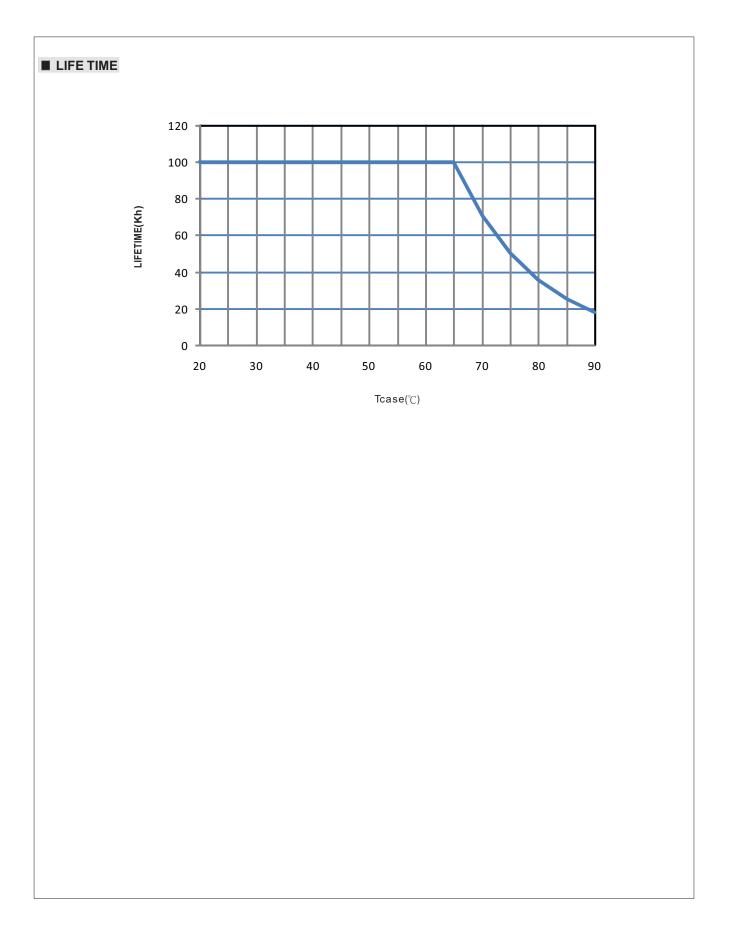


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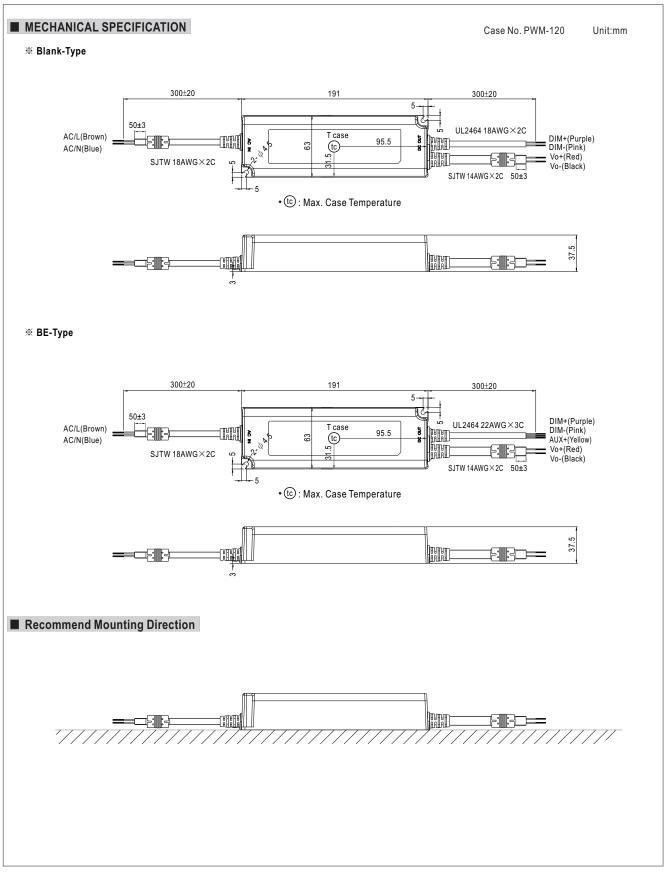




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