

Наличие и актуальные цены на

NPF-120-12

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

















Features

- · Constant Voltage + Constant Current mode output
- Plastic housing with Class II design
- · Built-in active PFC function
- 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

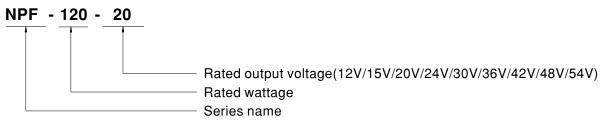
■ GTIN CODE

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

Description

NPF-120 series is a 120W AC/DC LED driver featuring the dual modes constant voltage and constant current output. NPF-120 operates from 90~305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 90.5%, 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.

■ Model Encoding





120W Constant Voltage + Constant Current LED Driver

NPF-120 series

SPECIFICATION

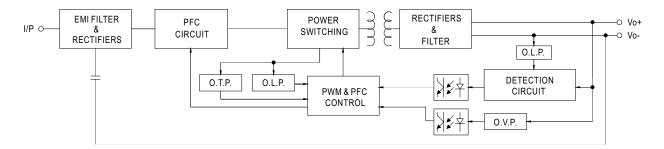
MODEL		NPF-120-12	NPF-120-15	NPF-120-20	NPF-120-24	NPF-120-30	NPF-120-36	NPF-120-42	NPF-120-48	NPF-120-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
ОИТРИТ	CONSTANT CURRENT REGION Note.2	7.2 ~ 12V	9 ~ 15V	12 ~ 20V	14.4 ~ 24V	18 ~ 30V	21.6 ~ 36V	25.2 ~ 42V	28.8 ~ 48V	32.4 ~ 54V	
	RATED CURRENT	10A	8A	6A	5A	4A	3.4A	2.9A	2.5A	2.3A	
	RATED POWER Note.5	120W	120W	120W	120W	120W	122.4W	121.8W	120W	124.2W	
	RIPPLE & NOISE (max.) Note.3	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	250mVp-p	250mVp-p	350mVp-p	
	VOLTAGE TOLERANCE Note.4		±4.0%	±4.0%	±4.0%	±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	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
						⊥0.5/0			⊥0.5/6		
	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	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 (Typ.)	89%	89%	90%	90.5%	89.5%	90%	90%	90%	90.5%	
	AC CURRENT	1.3A / 115VA			0.55A / 277VA(1 •	-			
	INRUSH CURRENT(Typ.)		1.3A / 115VAC 0.65A / 230VAC 0.55A / 277VAC COLD START 60A(twidth=520µs measured at 50% lpeak) 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									
	NO LOAD POWER CONSUMPTION		1 1/10								
PROTECTION	NO LOAD FOWER CONSOMETION										
	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	
	OVER VOLIAGE	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 ~ +90 °C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
	MAX. CASE TEMP.	Tcase=+90 $^{\circ}$ 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./1cycle, period for 72min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS Note.8	UL8750(type"HL"), CSA C22.2 No. 250.13-12, EN 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/EN60335-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH									
	EMC EMISSION Note.8	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	2632.6K hrs r	nin. Telcord	ia SR-332 (Bel	llcore); 295.	2Khrs min. I	MIL-HDBK-217	'F (25°C)			
	DIMENSION	191*63*37.5mm (L*W*H)									
	PACKING		s/15.6Kg/0.87	CUFT							
NOTE	All parameters NOT speciall				ut, rated currer	nt and 25°C of	ambient tempe	erature.			
NOTE	2. Please refer to "DRIVING M	METHODS OF LED MODULE".									
		& noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.									
	·	o tolerance, line regulation and load regulation. I under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details.									
		. 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.									
	7. The driver is considered as	as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the									
	1	nal equipment manufacturers must re-qualify EMC Directive on the complete installation again.									
		w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) al life expectancy of >50,000 hours of operation when Tcase, particularly (tc) point (or TMP, per DLC), is about 75°C or less.									
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	-	r statement on MEAN WELL'S website at http://www.meanwell.com derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).									
	11. For any application note ar	pplication note and IP water proof function installation caution, please refer our user manual before using.									

https://www.meanwell.com/Upload/PDF/LED_EN.pdf

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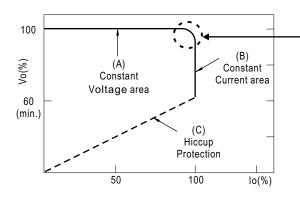
■ BLOCK DIAGRAM

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.

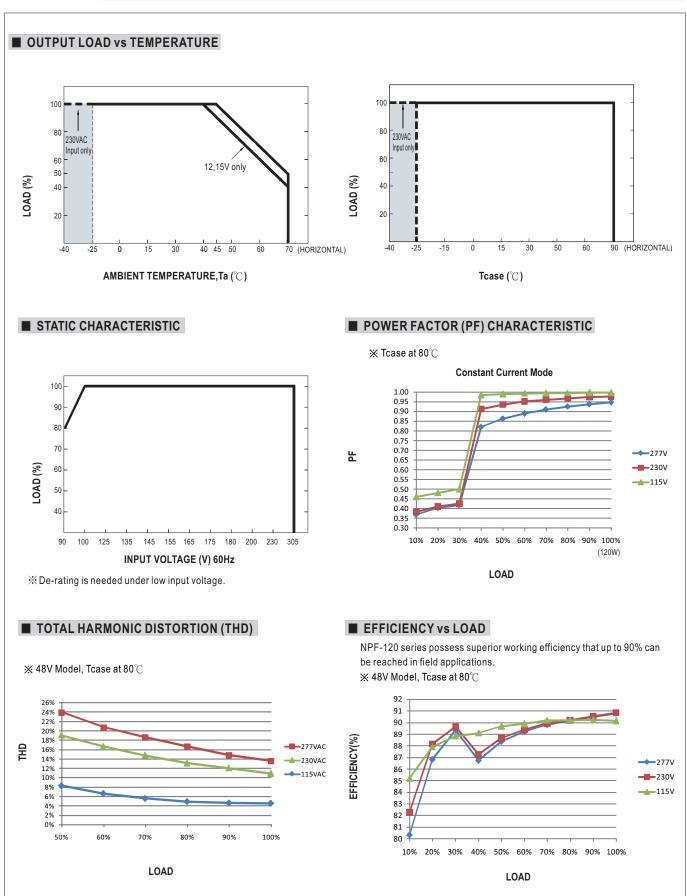


Typical output current normalized by rated current (%)

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

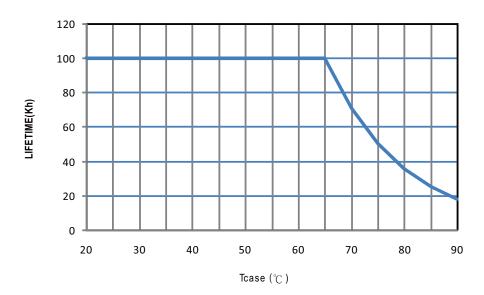
Should there be any compatibility issues, please contact MEAN WELL.







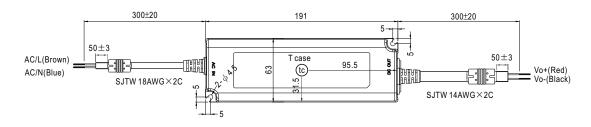
■ LIFE TIME



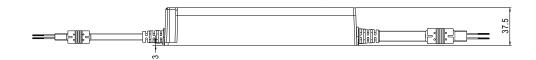


■ MECHANICAL SPECIFICATION

CASE NO.: PWM-120 Unit:mm Tolerance:±1



ullet (tc) : Max. Case Temperature



■ Recommend Mounting Direction



■ INSTALLATION MANUAL

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