

Наличие и актуальные цены на

NPF-40D-12

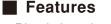
https://www.mean-well.ru/store/NPF-40D-12/











- · 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

SELV IP67 C CRISCOLO CONTROL CRISCOLO CONTROL CRISCOLO CONTROL CONTROL

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

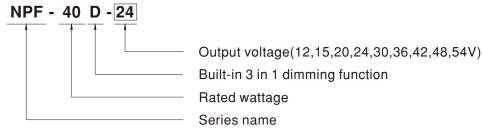
■ GTIN CODE

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

Description

NPF-40D series is a 40W AC/DC LED driver featuring the constant current mode output. NPF-40D 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-40D is equipped with the 3 in 1 dimming function so as to provide the design flexibility for LED lighting system.

Model Encoding



SPECIFICATION

SPECIFIC	ATION									
MODEL		NPF-40D-12	NPF-40D-15	NPF-40D-20	NPF-40D-24	NPF-40D-30	NPF-40D-36	NPF-40D-42	NPF-40D-48	NPF-40D-54
ОИТРИТ	RATED CURRENT	3.34A	2.67A	2A	1.67A	1.34A	1.12A	0.96A	0.84A	0.76A
	RATED POWER	40.08W	40.08W	40W	40.08W	40.2W	40.32W	40.32W	40.32W	41.04W
	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
	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.)	$\label{eq:pf} PF \!\!\!\!\! \ge \!\!\!\! 0.97/115 \text{VAC}, PF \!\!\!\!\! \ge \!\!\!\! 0.95/230 \text{VAC}, PF \!\!\!\! \ge \!\!\!\! 0.92/277 \text{VAC} \textcircled{gfull load} \\ \text{(Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)}$								
	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%	89%	90%	90%	90%	90%
	AC CURRENT (Typ.)	0.6A / 115VAC								
	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								
PROTECTION	OVED CURRENT	95 ~ 108%								
	OVER CURRENT	Constant current limiting, recovers automatically after fault condition is removed								
	SHORT CIRCUIT	Hiccup mod	e, recovers a	utomatically	after fault cor	ndition is rem	oved			
	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								
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	-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 &	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								
EMC	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								
OTHERS	MTBF	3084.3K hrs min. Telcordia SR-332 (Bellcore); 288.2K hrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	150*53*35mm (L*W*H)								
	PACKING	0.49Kg;30pcs/15.7Kg/1.0CUFT								
NOTE	De-rating may be needed u Length of set up time is me The standby power consum The driver is considered as complete installation, the fir (as available on https://www This series meets the typical	lly mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. Inder low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. asured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.								

8. 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).

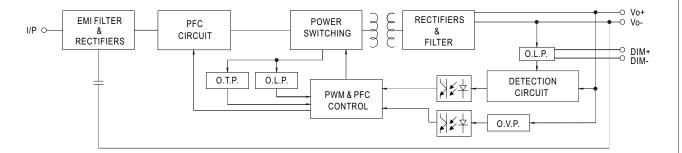
9. For any application note and IP water proof function installation caution, please refer our user manual before using.

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

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

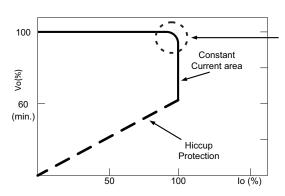


PFC fosc: 50~120KHz PWM fosc: 60~130KHz



■ DRIVING METHODS OF LED MODULE

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



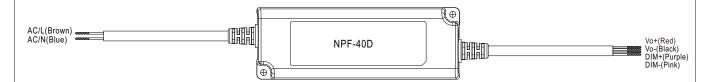
Typical LED power supply I-V curve

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.

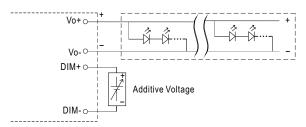


■ DIMMING OPERATION



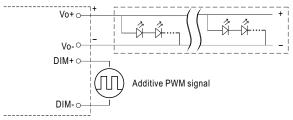
※ 3 in 1 dimming function

- 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.
- Direct connecting to LEDs is suggested. It is not suitable to be used with additional drivers.
- Dimming source current from power supply: 100µA (typ.)
- O Applying additive 0 ~ 10VDC



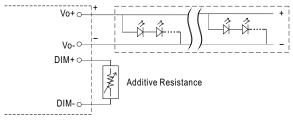
"DO NOT connect "DIM- to Vo-"

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

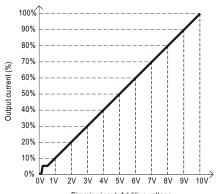


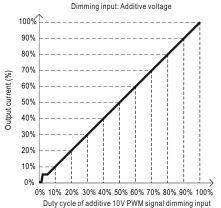
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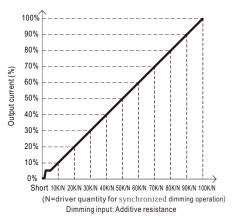
Applying additive resistance:



"DO NOT connect "DIM- to Vo-"



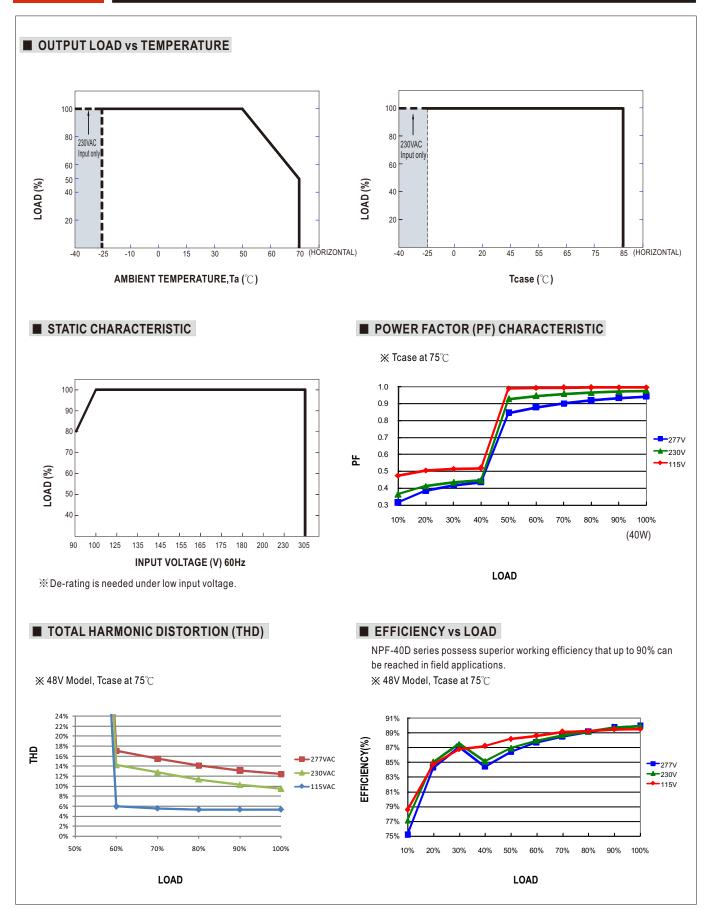




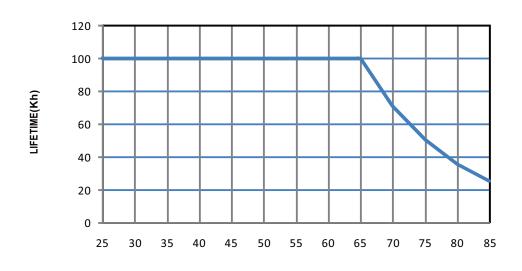
Note: 1. Min. dimming level is about 6% and the output current is not defined when 0% < Iout < 6%.

2. The output current could drop down to 0% when dimming input is about 0kΩ or 0Vdc, or 10V PWM signal with 0% duty cycle.





■ LIFE TIME



Tcase($^{\circ}$ C)

