



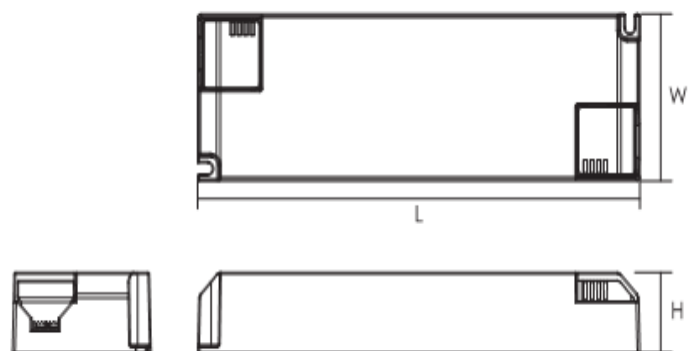
SWITCH TO BRIGHTER FUTURE

NTF Series

TRIAC Dimming LED Driver

Features:

- Dimming with leading edge or trailing edge dimmer
- Constant current driver
- Wide output voltage extended down to 50%
- Analogue flicker-free
- Protections: opencircuit, shortcircuit, overload, over temperature
- SELV equivalent
- Protection class II
- Smooth dimming compatible with most dimmer
- Dimming range 1...100%
- Suitable for class I&II luminaires



Applications

- Office
- Shop
- Hospitality
- Public areas

Approbations & Certifications

CE, CB, TUV

Housing properties

- Housing material: plastic, white.
- Type of protection IP20

Electrical Specifications

Type		Unit	D90045NTF
INPUT	Nominal voltage	V	220 – 240
	Nominal frequency	Hz	50 / 60
	AC voltage range	V	198 – 264
	DC voltage range	V	176-370
	Nominal current	A	0.28
	THD (Full load)	%	≤ 20
	Power factor(Full load)		≥ 0.95
	Efficiency(Full load)	%	86
	Turn on time	ms	≤ 500
	NO load	W	≤ 1.0
	Protection class		II
	Inrush current(Cold start)	A pk	5 (th = 100 us)
	Max.unitsper circuit breaker		B10:140 B16:224 C10:280 C16: 448
OUTPUT	Nominal voltage range	V	25-50
	Maximumvoltage(Open Circuit)	Vdc	≤57
	Nominal current	mA	900
	Current accuracy	%	+/- 5
	Current ripple ≤120Hz	%	≤ 8
	Pst LM		≤ 1.0
	SVM		≤ 0.4
	Nominal power range	W	22 - 45
	Maximum power	W	45
	Galvanic isolation		SELV
	ENVIRONMENT	Ambienttemperature range ta	°C
Maximum case temperature tc		°C	85
Max. Case temp. In fault contdition		°C	110
Storage temperature range		°C	-20 ...+70
Relative humidity		%	5 ... 85(Not condensing)
Surge transient protection		kV	1 2 (L/N LN/PE acc to. EN 61547 Clause 5.7)
Environmental rating			Indoor
IP rating			IP 20
Mains switching cycles			> 100,000
Expected lifetime		h	50,000 (0.2% / 1'000 h failurerate)

*All parameters NOT specially mentioned are measured at 230VAC input ,rated current and 25°C of ambient temperature

Protections

Overtemperature

Yes

Overload

Yes

No load

Yes

Short-circuit

Yes

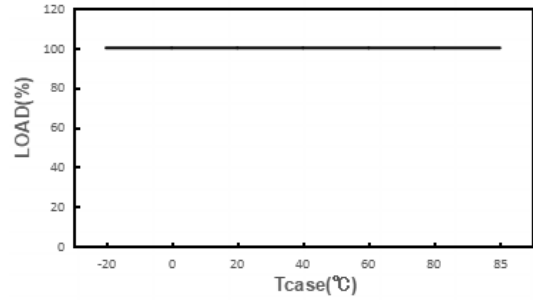
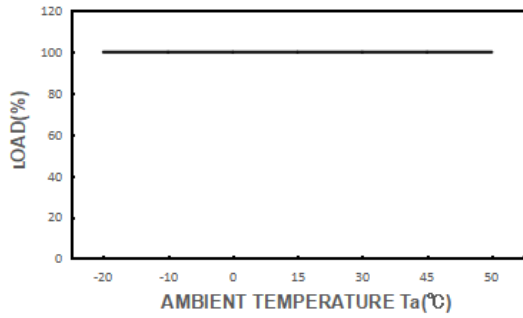
Inputovervoltage

Maximum allowed input voltage 264VAC

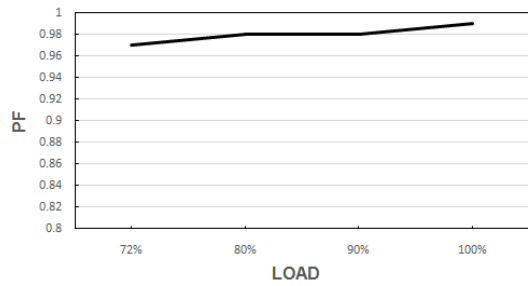
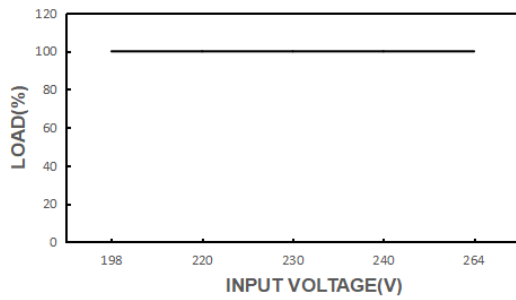
Outputovervoltage

Yes, Limitation of Output voltage ≤57V

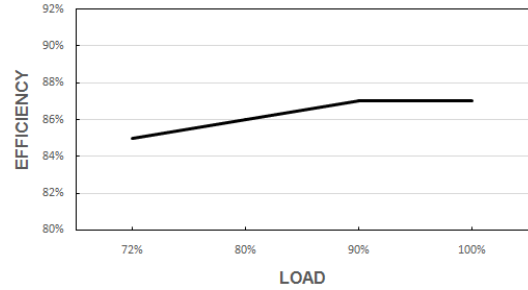
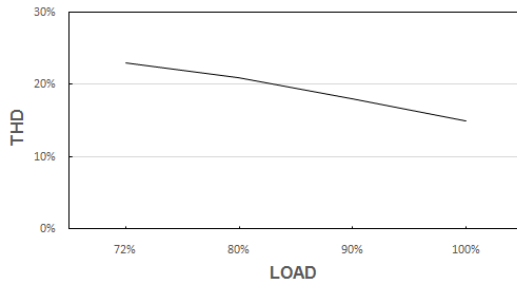
OUTPUT LOAD vs TEMPERATURE



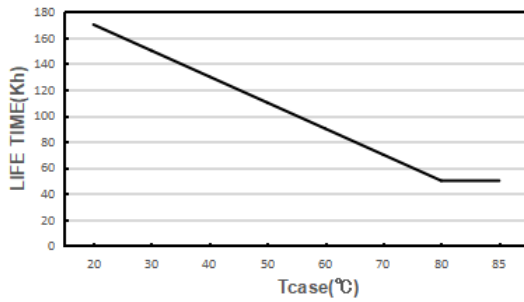
STATIC CHARACTERISTIC POWER FACTOR (PF) CHARACTERISTIC



TOTAL HARMONIC DISTORTION (THD) EFFICIENCY vs LOAD



LIFE TIME



*The graph is for reference only, and the detailed values refer to the parameter table

Wiring Diagram

Terminal:	Push interminals
Max. cable length-system:	2m
Dimensions(LxWxH):	166×52×25mm
Weight:	185g±5%



For build-in S: 0.5-1.5mm², for independent S: 0.75-1.5mm²

Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

Remarks

-Touchcurrent: lower than 0.7mA, according to EN60598-1 annex. G and EN61347-1 annex A

Standards

EN 61347-1
EN 61347-2-13
EN 62384
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 60598-1
IEE1789
(EU) 2019/2020

Manufacturer's address:

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