

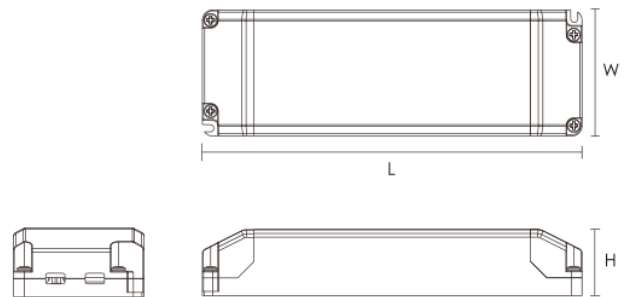
SWITCH TO BRIGHTER FUTURE



Product data sheet: DIMxx-50 Series

Features

- Independent design
- Dimmable constant voltage driver
- Analogue flicker-free
- Diming with leading edge or trailing edge dimmer
- Smooth dimming compatible with most dimmer
- Dimming range 1...100%
- Captured terminal screws
- Protections: opencircuit, shortcircuit, overload, over temperature
- SELV equivalent
- Suitable for protection class I & II luminaires
- Protection class II



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	DIM12-50	DIM24-50
INPUT	Nominal voltage	V	220 – 240	
	Nominal frequency	Hz	50 / 60	
	AC voltage range	V	198 – 264	
	DC voltage range	V	NA	
	Nominal current	A	0.31	
	THD (Full load)	%	≤ 15	
	Power factor (Full load)		0.95	
	Efficiency (Full load)	%	84	
	Turn on time	ms	≤ 500	
	NO load	W	≤ 1.0	
	Protection class		II	
	Inrush current(Cold start)	A pk	20 (th = 100 μs)	
	Max.units per circuit breaker		B10: 35 B16: 56 C10: 70 C16: 112	
	Max.units per circuit breaker		B10: 35 B16: 56 C10: 70 C16: 112	
OUTPUT	Nominal voltage	V	12	24
	Maximum voltage(Open Circuit)	Vdc	≤ 15	≤ 27
	Nominal current range	A	1.0 – 4.16	0.5 – 2.08
	Current accuracy	%	+/- 5	
	Current ripple ≤120Hz	%	≤ 150	
	Pst LM		≤ 1	
	SVM		≤ 0.4	
	Nominal power range	W	12 – 50	
	Maximum power	W	50	
	Galvanic isolation		SELV	
ENVIRONMENT	Ambient temperature range ta	°C	-20 ...+50	
	Maximum case temperature tc	°C	85	
	Max. Case temp. In fault condition	°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 failure rate)	

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

Protections

Over temperature

Yes

Over load

Yes

No load

Yes

Short-circuit

Yes

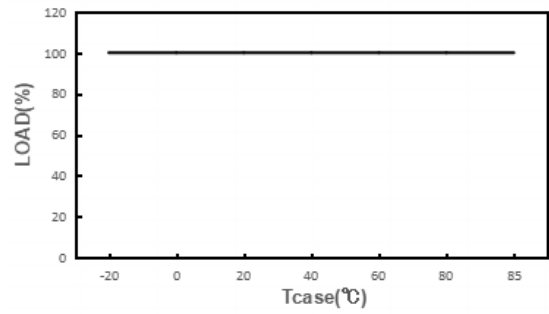
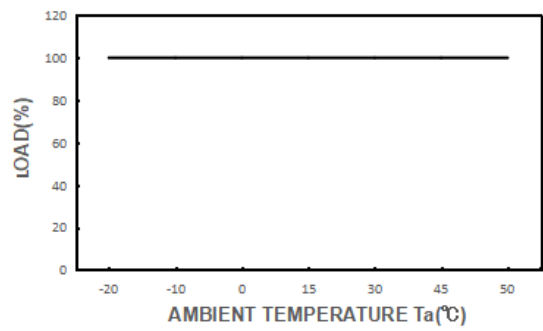
Input overvoltage

Maximum allowed input voltage 264V AC

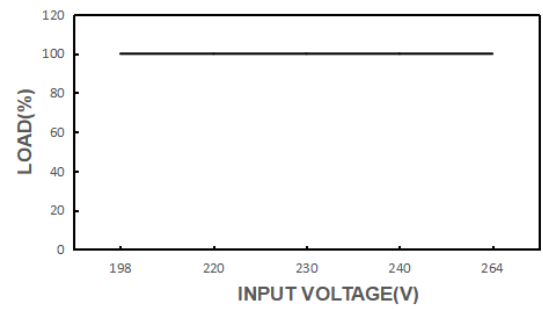
Output overvoltage

Yes, Limitation of Output voltage ≤ 27V

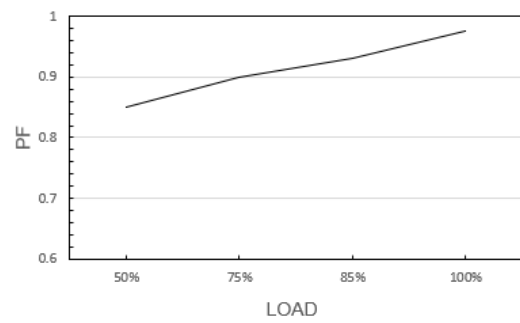
OUTPUT LOAD vs TEMPERATURE



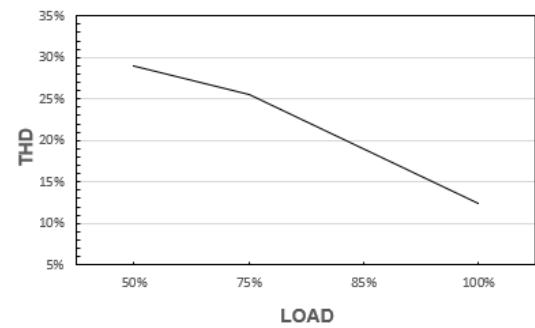
STATIC CHARACTERISTIC



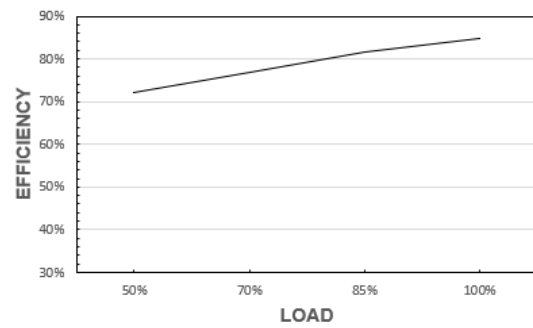
POWER FACTOR (PF) CHARACTERISTIC



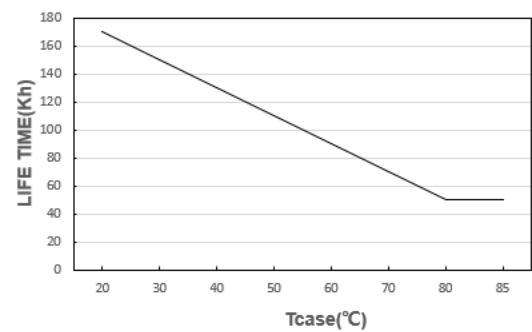
TOTAL HARMONIC DISTORTION (THD)



EFFICIENCY vs LOAD



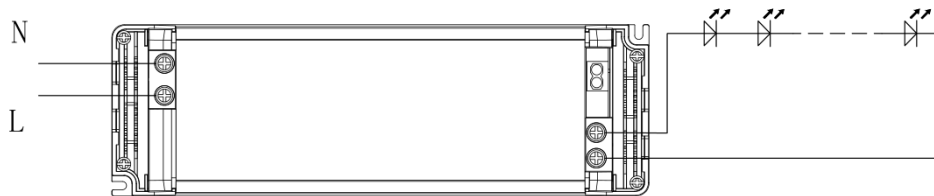
LIFE TIME



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

Wiring Diagram

Terminal:	Captured terminal screws
Max. cable length - system:	2 m
Dimensions(LxWxH):	184 x 61 x 32 mm
Weight:	240 g



For build-in S: 0.5-2.5mm², for independent S: 0.75-2.5mm²

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

Remarks

-**Touch current:** lower than 0.7 mA, according to EN 60598-1 annex. G and EN 61347-1 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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