

SWITCH TO BRIGHTER FUTURE



Product data sheet: DIM48-50

Features

- Independent design
- Dimmable constant voltage driver
- Analogue flicker-free
- Dimming with leading edge or trailing edge dimmer
- Smooth dimming compatible with most dimmer
- Dimming range 1...100%
- Captured terminal screws
- Protections: open circuit, short circuit, overload, over temperature
- SELV equivalent
- Suitable for protection class I & II luminaires
- Protection class II
- Nominal life-time up to 50,000 h

Applications

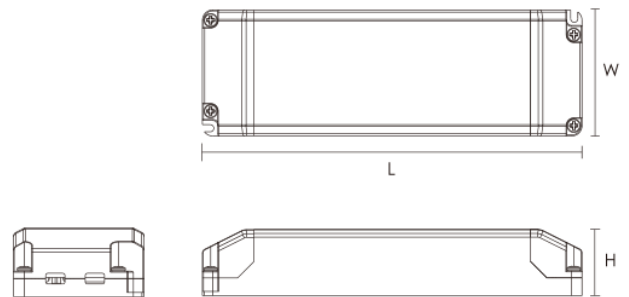
- Office
- Shop
- Hospitality
- Public areas

Approbations & Certifications

CE, CB

Housing properties

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



Electrical Specifications

Type		Unit	DIM48-50
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)	%	90
	Turn on time	ms	≤ 500
	NO load	W	NA
	Protection class		II
	Inrush current(Cold start)	A pk	20 (th = 100 μs)
	Max.unitsper circuit breaker		B10: 32 B16: 51 C10: 32 C16: 51
	OUTPUT	Nominal voltage	V
Maximumvoltage(Open Circuit)		Vdc	≤ 59
Nominal current range		A	0.25 – 1.04
Voltage accuracy		%	+/- 5
Voltage ripple(≤120Hz)		%	≤ 5
Pst LM			≤ 1
SVM			≤ 0.4
Nominal power range		W	12 – 50
Maximum power		W	50
Galvanic isolation			SELV
ENVIRONMENT	Ambienttemperature range ta	°C	-20 ...+50
	Maximum case temperature tc	°C	75
	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

Overtemperature

Yes

Overload

Yes

No load

Yes

Short-circuit

Yes

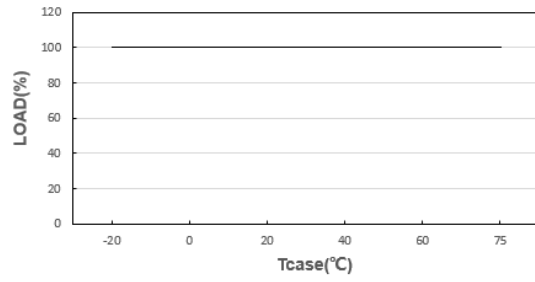
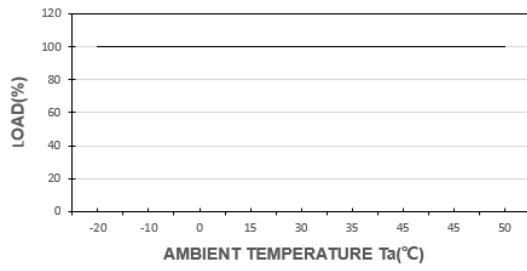
Inputovervoltage

Maximum allowed input voltage 264VAC

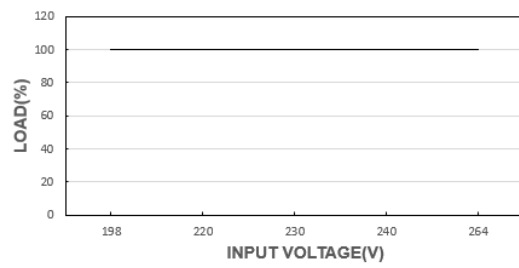
Outputovervoltage

Yes, Limitation of Output voltage ≤59V

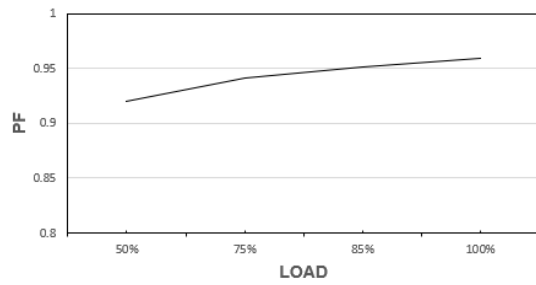
OUTPUT LOAD vs TEMPERATURE



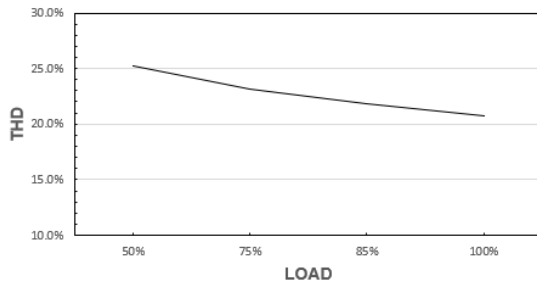
STATIC CHARACTERISTIC



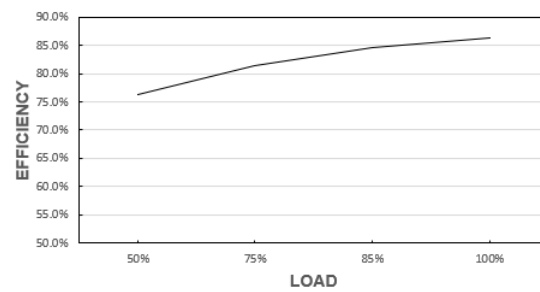
POWER FACTOR (PF) CHARACTERISTIC



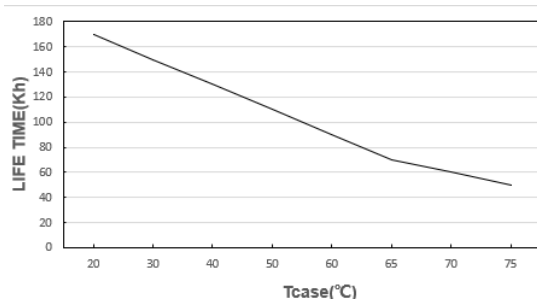
TOTAL HARMONIC DISTORTION (THD)



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:	2m
Dimensions(LxWxH):	184 x 61x 32mm
Mounting hole spacing, length	184.3 mm
Weight:	240g



PRI

Cable cross-section:	0.75-2.5□/AWG 18-14
Stripping:	6mm

SEC

Cable cross-section:	0.75-2.5□/AWG 18-14
Stripping:	6mm

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
EN 50581
(EU) 2019/2020

Manufacturer's address:

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