

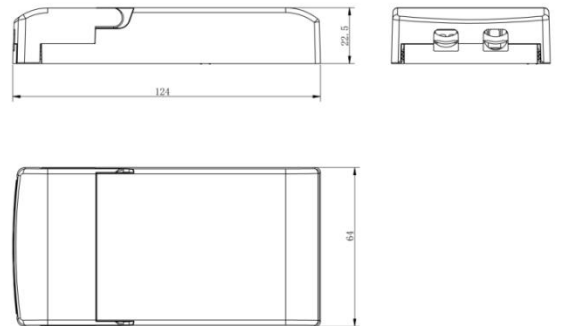
SWITCH TO BRIGHTER FUTURE



Product data sheet: IEM-25BC

Features

- Independent dimmable constant current LED Driver
- BLE5.0, powerful mesh networking capabilities, no gateway
- Lamps grouping configurable, scene mode settings, timer settings
- Flicker-free
- Dimming range: 0.5...100%
- Configurable constant current output via dip-switch
- Protections: opencircuit, shortcircuit, overload, overtemperature
- Support IOS or Android smart devices for wireless control
- Suitable for use in emergency lighting systems
- Suitable for wireless bluetooth mesh system of CASAMBI
- Suitable for protection class II luminaires
- Protection class II



Applications

- Office
- Shop
- Hospitality
- Public areas

Approbations & Certifications

CE

Housing properties

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

Electrical Specifications

Type		Unit	IEM-25BC							
INPUT	Nominal voltage	V	220 – 240							
	Nominal frequency	Hz	50 / 60							
	AC voltage range	V	198 – 264							
	DC voltage range	V	176 – 250							
	Nominal current	A	0.16							
	THD (Full load)	%	≤ 15							
	Power factor (Full load)		0.80C	≥0.95						
	Efficiency (Full load)	%	85							
	Turn on time	ms	≤ 1200							
	Stand-by power	W	≤ 0.5							
	Protection class		II							
	Inrush current(Cold start)	A pk	15(th = 100 μs)							
	Max.units per circuit breaker		B10:46 B13:60 B16:74 B20:93 C10:62 C13:81 C16:100 C20:125							
OUTPUT	Nominal voltage range	V	10 - 50	10 - 50	10 - 50	10 - 50	10 - 50	10 - 45	10 - 42	10 - 36
	Maximum voltage(Open Circuit)	Vdc	≤ 59							
	Nominal current	mA	260	350	400	450	500	550	600	700
	Current accuracy	%	+/- 5							
	Current ripple 120Hz	%	≤ 20							
	Pst LM		≤ 1							
	SVM		≤ 0.4							
	Nominal power range	W	2.6 - 13	3.5 - 17.5	4 - 20	4.5 - 22.5	5 - 25	5.5 - 25	6 - 25	7 - 25
	Maximum power	W	25							
	Galvanic isolation		SELV							
ENVIRONMENT	Ambient temperature range ta	°C	-20 ...+45							
	Maximum case temperature tc	°C	90							
	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

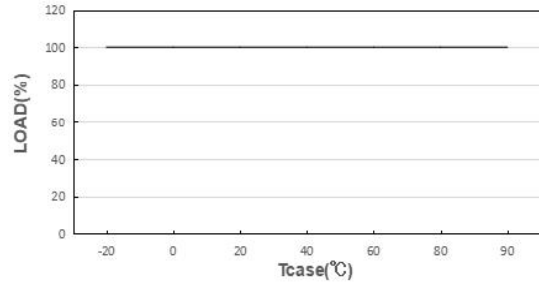
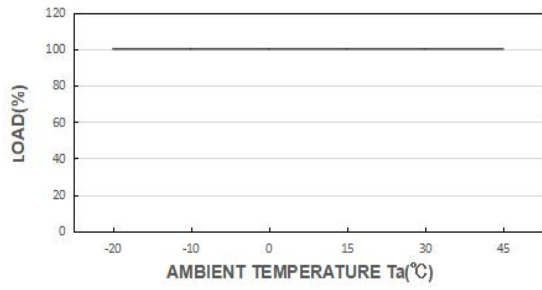
Input overvoltage

Maximum allowed input voltage 264V AC

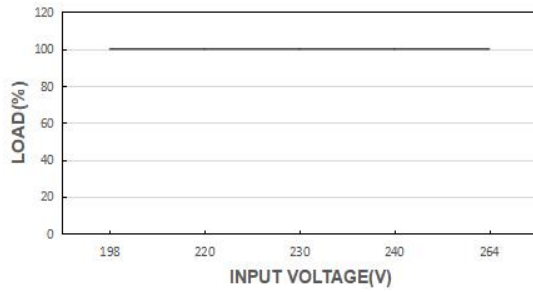
Output overvoltage

Yes, Limitation of Output voltage < 59V

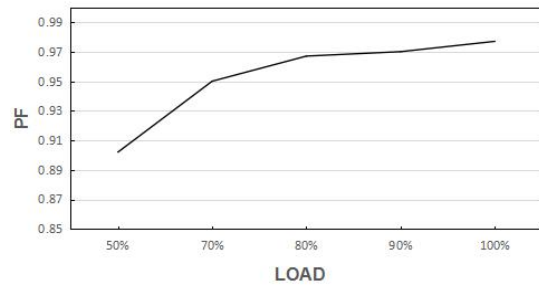
OUTPUT LOAD vs TEMPERATURE



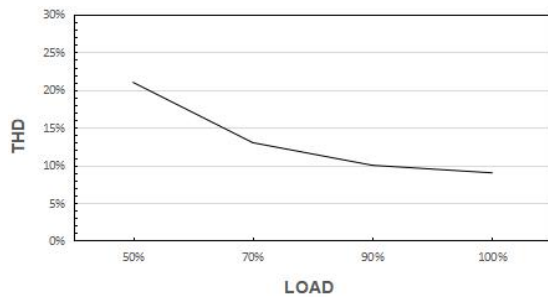
STATIC CHARACTERISTIC



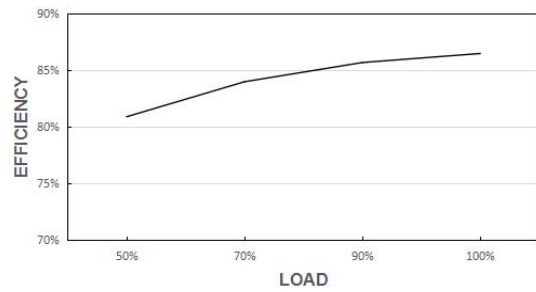
POWER FACTOR (PF) CHARACTERISTIC



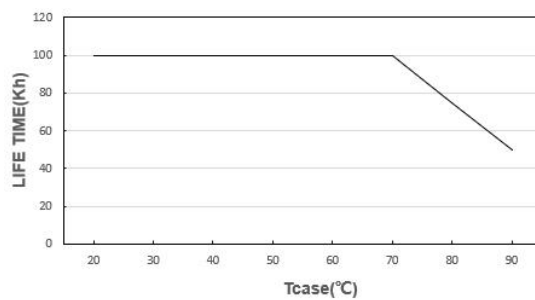
TOTAL HARMONIC DISTORTION (THD)



EFFICIENCY vs LOAD



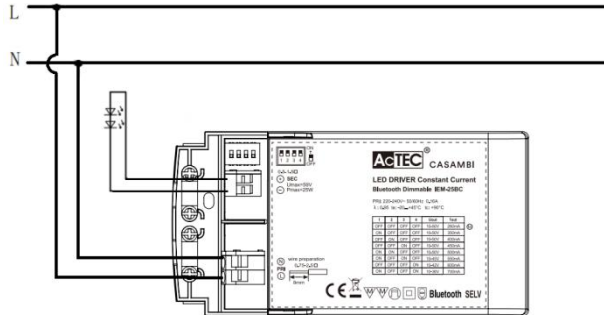
LIFE TIME



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

Wiring Diagram

Terminal:	Push button
Max. cable length – system:	2 m
Dimensions(LxWxH):	124 x 64 x 22.5 mm
Weight:	128 ± 5 g



PRI

Cable cross-section:	0.75-2.5□
Stripping:	8 mm

SEC

Cable cross-section:	0.5-1.5□
Stripping:	8 mm

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
IEEE1789
(EU) 2019/2020

Manufacturer's address:

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