

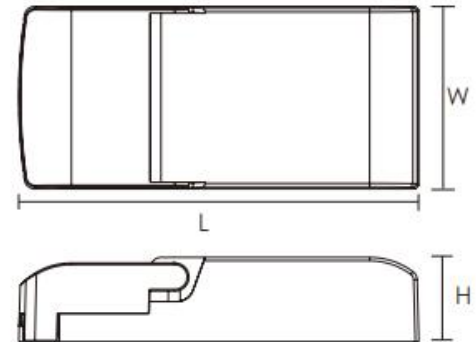


SWITCH TO BRIGHTER FUTURE

Product data sheet: IEM-12BC TW

Features

- Independent dimmable constant current 2-channel LED Driver
- BLE5.0, powerful mesh networking capabilities, no gateway
- Lamps grouping configurable, scene mode settings, timer settings
- Flicker-free
- Dimming range: 2...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
- Tunable white application
- 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-12BC TW								
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	0.08								
	THD (Full load)	%	≤ 15								
	Power factor (Full load)		0.80C	0.90C	≥ 0.95						
	Efficiency (Full load)	%	77								
	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 C10:93 C13:121 C16:149 C20:186								
OUTPUT	Nominal voltage range	V	10 - 50	10 - 50	10 - 50	10 - 46	10 - 42	10 - 34	10 - 30	10 - 27	10 - 24
	Maximum voltage(Open Circuit)	Vdc	≤ 59								
	Nominal current	mA	150	180	230	260	300	350	400	450	500
	Current accuracy	%	+/- 5								
	Current ripple 120Hz	%	≤ 20								
	Pst LM		≤ 1								
	SVM		≤ 0.4								
	Nominal power range	W	1.5 - 7.5	1.8 - 9	2.3 - 11.5	2.6 - 11.96	3 - 12.6	3.5 - 11.9	4 - 12	4.5 - 12.15	5 - 12
	Maximum power	W	12								
	Galvanic isolation		SELV								
ENVIRONMENT	Ambient temperature range ta	°C	-20 ...+45								
	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

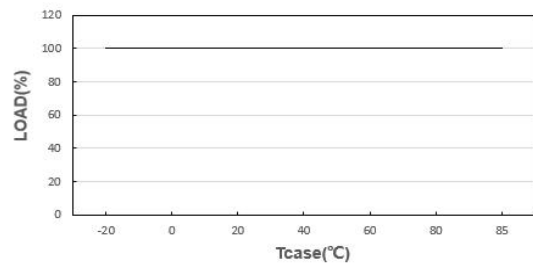
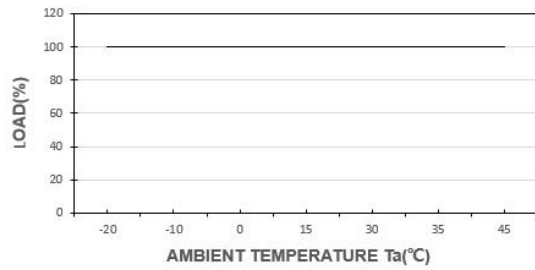
Input overvoltage

Maximum allowed input voltage 264V AC

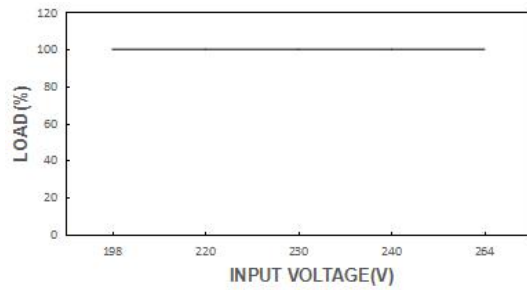
Output overvoltage

Yes, Limitation of Output voltage < 59V

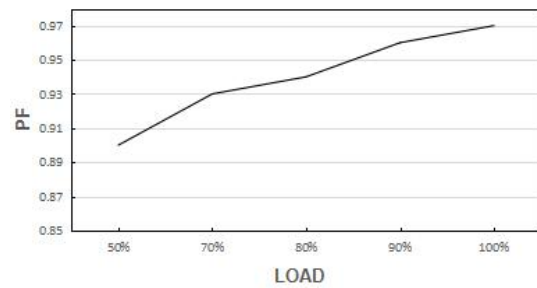
OUTPUT LOAD vs TEMPERATURE



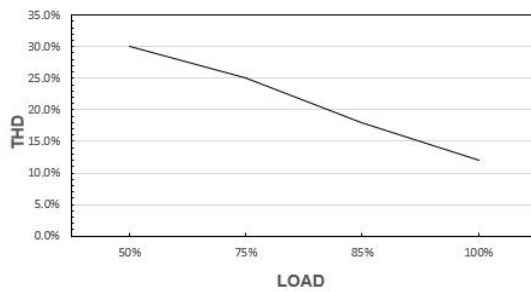
STATIC CHARACTERISTIC



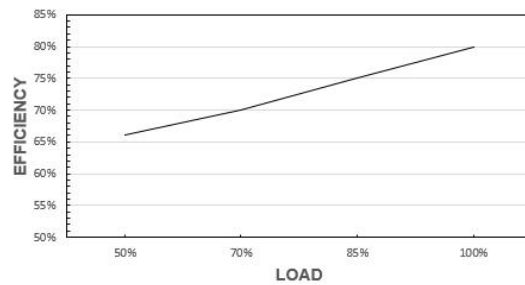
POWER FACTOR (PF) CHARACTERISTIC



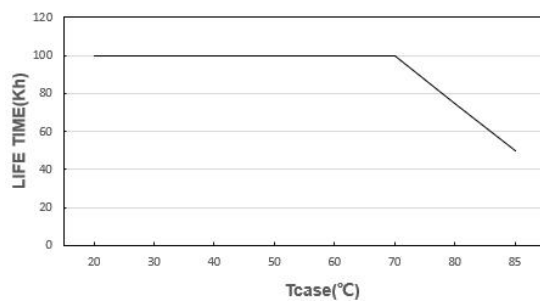
TOTAL HARMONIC DISTORTION (THD)



EFFICIENCY vs LOAD



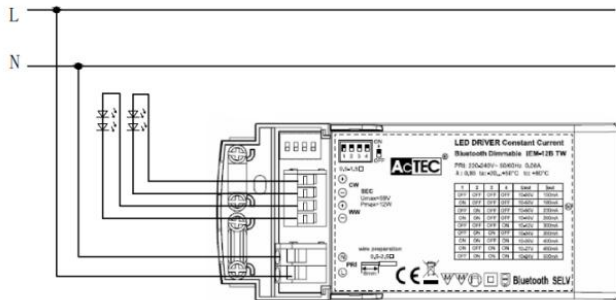
LIFE TIME



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

Wiring Diagram

Terminal:	Push in terminals
Max. cable length – system:	2 m
Dimensions(LxWxH):	119 x 52 x 22.5 mm
Weight:	95 ± 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
IEE1789
(EU) 2019/2020

Manufacturer's address:

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