

BSA-7W-EM-48V180-CH



Emergency Lighting Conversion Kits - Basic Conversion

BSA-7W-EM-48V180-CH, is a high quality emergency lighting LED driver designed to suite a wide range of LED tubes and applications. A 3-hour standard switchable emergency lighting LED driver is designed to work with lithium-ion batteries and is available for the 25...48V Volt LED loads, light sources, and applications.

The driver automatically adjusts the output current to provide the best match between the battery and the load, providing half/maximum illumination.

The driver has been tested for safety and complies with the requirements of national and international regulations.

Features

Protections

Short circuit / Over current / Over voltage / Over temperature / Hot Swap

Application

Emergency lighting LED Conversion kits for 25...48V Volt LED loads, light sources, and applications.

Circuit

Automatic Battery Recharge Circuit Battery Discharge Circuit

Battery

Operated with Maintenance-free long life lithium-ion battery 3.6V/7.2V.

Function

Charge LED indicator Manual push-in switch bottom & LED indicator

Warranty

5 year warranty

Product family benefits

- Conversion kits LED for central battery emergency lighting or downlight applications
- □ Lifetime: up to 100,000h (temperature at T c = 75 °C, max. 10 % failure rate)
- ☐ Wide operating temperature range: -40...+65 °C
- Available working with existing ECGsmart LED Light source T5 136mm LED, T5 212mm LED, T5 288mm LED, G24q 5W LED, G24q 6W LED, 2G7 LED.
- □ Conform with IEC 61347-1, IEC 60598-2-22 standard and RoHS regulation.
- Very high efficiency

Technical data

Electrical data

Nominal input voltage	100220V AC Max. 260V AC
Mains frequency	5060 Hz
Input current	1580mA
Power factor	>0.5
Nominal output voltage	25V48V DC
Nominal output current	160mA Max. 170mA
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	4W11W
Regulation method	Constant Current
Power loss in stand-by mode	<0.25W
Isolation input to output	No
SELV or Non-SELV	SELV
Charge LED Indicator	BLUE/RED

Colors & materials

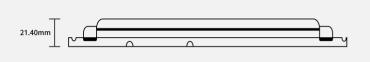
Casing material Aluminum

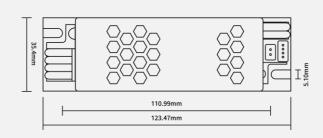
Temperature & operating conditions

7 millions composition 70	Ambient temperature range	-40+70 °C
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Electrical data

Product weight	67g
Length	123.47mm
Width	35.4mm
Height	21.4mm
Mounting hole space, length	D5.10mm, 110.99mm





Lifespan

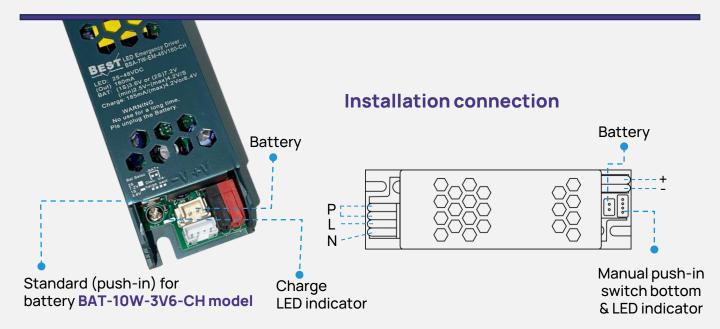
lifetime	100000/50000 h
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Wiring and Connections

Input Wire cross-section	0.51.5mm² / 2016 AWG
Output Wire cross-section	0.51.5mm² / 2016 AWG
Туре	Wago, solid wire

Capabilities

Dimmable	No
Type of Protection	IP20



Protection

Overheating Protection

- Intelligently adjust or turn off the current output if the PCB temperature ≥110°C. When the PCB temperature < 90°C, automatically recover normal output

Overload Protection

- Automatically protect the device when the load exceeds 102% of the rated power. Automatically recover once load is reduced

Overvoltage Protection

- Automatically protect the device when voltage exceeds the no-load voltage. It can be recovered automatically

Short Circuit Protection

- Entering hiccup mode if short circuit occurs, and recover automatically

Certificate of Conformity

CE/RoHS

- Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61000-3-3/Acc. to IEC 61547 /Acc. to IEC 60598-2-22

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2G7 9W CFL

2G7 11W CFL

MODEL: BSA-7W-EM-48V180-CH

Conversion kits LED

the best match with ECGsmart LED tubes and external LED Driver solution for old ECG ballasts and CFL/FL replacement



NOTE

The number or the range of number stands for how many LED lamps can be used in serial connection for that corresponding constant-current LED driver.

2G7 5W

2G7 6W

- The correct setting of output current of LED driver should be referred to the designated lamp current of ECGsmart LED lamp in its datasheet.
- Welcome OEM and ODM! Please contact us directly.

Battery MODEL

Emergency lighting Conversion kits LED -

the best match for BSA-7W-EM-48V180-CH



BAT-10W-3V6-CH

Battery	lithium-ion
Duration	3 Hours (One Cell) or Customized
Battery Charging Time	<24-Hours or Customized
Nominal voltage of battery	3.6V 3Ah
Nominal capacity of battery	3,300 mAh, 10,000mAh max.
Switching AC to DC	<0.1 sec.
Charge Current	621500mA
Battery Discharge output current	80mA Max.
Size	L.:81.8mm D.:21mm
Battery Weight	65g
Та	Charge: 0 45°C / Discharge: -2060°C

BAT-20W-7V2-CH

Battery	lithium-ion
Duration	3 Hours (2 Cell) or Customized
Battery Charging Time	<24-Hours or Customized
Nominal voltage of battery	7.2V 3Ah
Nominal capacity of battery	3,300 mAh, 10,000mAh max.
Switching AC to DC	<0.1 sec.
Charge Current	621500mA
Battery Discharge output current	80mA or 160mA Max.
Size	L.:145.6mm D.:21
Battery Weight	122g
Та	Charge: 0 45°C / Discharge: -2060°C