# PRODUCT DATASHEET
# BX06SA -W4F-840

## BoxLED Side Plus | LED modules for light advertising and backlighting



### AREAS OF APPLICATION

- Signage and illuminated advertising
- Illumination of single and double-sided light boxes
- Permanent outdoor use in enclosed light boxes

### PRODUCT BENEFITS

- Modules are compatible with the BoxLED mounting profile
- Uniform illumination thanks to optimized elliptical lenses
- Several options for quick and simple mounting: bolting or snap-in
- Excellent module efficacy
- Very long lifetime

### PRODUCT FEATURES

- Chain of 32 linear LED modules
- Connected with flexible cables
- Maximum length of one chain: 9.60 m
- Type of protection (modules): IP66
- Special robust encapsulation
- Fully integrated heat sink




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## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| **Nominal voltage** | 24.00 V |
| **Nominal wattage per LED module** | 3.6 W |
| **Rated wattage** | 115.20 W |
| **Reverse Voltage** | 25 V |
| **Input voltage range** | 23…25 V |
| **Type of current** | DC |

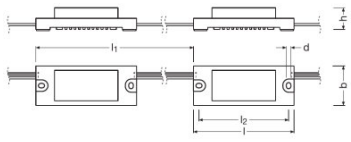
### Photometrical data

| | |
|---|---|
| **Rated color temperature** | 4000 K |
| **Light color (designation)** | Neutral White |
| **Light color LED** | White |
| **Total useful luminous flux** | 5760 lm |
| **Luminous flux per module chain** | 7680 lm |
| **Luminous efficacy** | 67 lm/W |
| **Color temperature** | 4000 K |
| **Color rendering index Ra** | › 80 |
| **Luminous flux** | 7680 lm |

### LED module information

| | |
|---|---|
| **Number of LEDs per module** | 6 |
| **Number of LED modules per chain** | 32 |
| **Minimum operable number of LED modules** | 1 |

### Dimensions & weight




| | |
|---|---|
| **Construction length** | 9600 mm |
| **Product weight** | 1905.00 g [1)] |
| **Length** | 9600 mm [2)] |


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| | |
|---|---|
| **Width** | 35.0 mm |
| **Height** | 20.6 mm |

[1] Per chain

[2] Maximum LED pitch 300 mm

## Temperatures & operating conditions

| | |
|---|---|
| **Temperature range in operation** | -25…95 °C [1] |

[1] At the $T_c$ point

## Lifespan

| | |
|---|---|
| **Nominal lamp life time** | 50000 h [1] |
| **Rated lamp life time** | 50000 h [1] |
| **Lifespan** | 50000 h |

[1] At $T_c$ 95 °C

## Capabilities

| | |
|---|---|
| **Dimmable** | Yes |
| **Dimming range** | 5…100 % |

## Certificates & standards

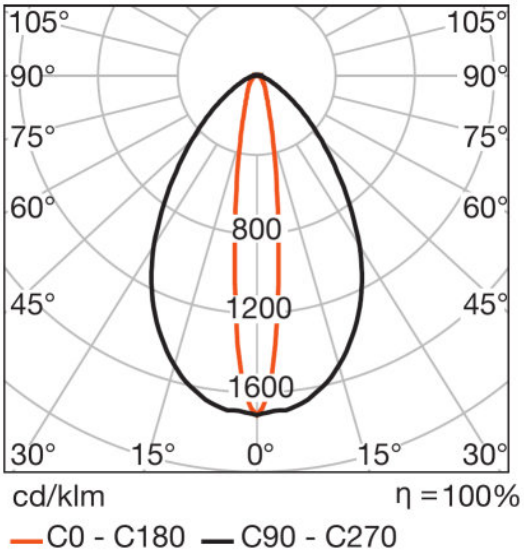
| | |
|---|---|
| **Energy efficiency class** | A |
| **Type of protection** | IP66 |
| **Standards** | Acc. to EC 61347-2-13/Acc. to EN 55015/Acc. to IEC 61547/Acc. to IEC 61000-3-2 |

## Logistical data

| | |
|---|---|
| **Temperature range at storage** | -25…85 °C |


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## Light Distribution




LDC typ polar

## EQUIPMENT / ACCESSORIES

- Several types of OPTOTRONIC 24 V power supplies available

## ADDITIONAL PRODUCT INFORMATION

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Please see the relevant application guides and instructions sheets for more detailed safety and mounting information. Additional information is available on request.
- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2
- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 61347-1
- Complies with IEC/EN 61347-2-13
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC OT DIM, OT DALI DIM or OPTOTRONIC 24 V power supplies with integrated 1...10 V dimming interface.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is stronly discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload and damage the LED module.
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- In order to operate OSRAM LED modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply that protects against short circuits, overload and overheating.
- In case other power supplies than OSRAM OPTOTRONIC are used, compliance to the neccessary operating parameters (voltage, current, power) has to be ensured.


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- Pay attention to polarity! Wrong polarity can cause destruction or malfunction of the module.
- Conducting paths on the circuit board must not be damaged or destroyed during installation.
- The LED module itself and all its components must not be stressed mechanically.
- Operation in or under water is prohibited.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- In case that the LED module is equipped with a pre-mounted double-sided adhesive tape, OSRAM assumes no liability and provides no guarantee for a permanent adherence of the modules to the surface. OSRAM recommends fixation of the modules by means of suitable screws.
- Complies with IEC 61347-1 cl. 18.3, cl. 18.4, IEC 60695-2-10, IEC 60695-11-5, IEC 60695-11-10 (classification V-0)
- To ensure uniform illumination, a reflective matt white surface is generally recommended for all internal frame walls and back panels of light boxes.

## DOWNLOAD DATA

| | File |
|---|---|
| | Product Datasheet<br>340746_Box LED Side Plus - BX06SA (EN) |
| | Product Datasheet<br>341077_BoxLED Side Plus - BX06SA (DE) |
| | Declarations of conformity<br>485792_EC-DoC BoxLED Side Plus |
| | Declarations of conformity<br>485816_Man-DoC BoxLED Side Plus |
| | Declarations of conformity<br>345160_CE - Declaration of Conformity BoxLED Side Plus + BoxLED Back Plus |
| | Installation guide<br>342045_BoxLED Side Plus |
| | CAD data PDF<br>607400_BoxLED Side Plus CAD PDF |
| | Eulumdat<br>340937_BOXLED SIDE PLUS - BX06SA-W4F-840 |
| | Eulumdat<br>341715_BoxLED SIDE PLUS - BX06SA-W4F-840 (.IES) |

## LOGISTICAL DATA

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4008321828682 | BX06SA -W4F-840 | Shipping carton box<br>1 | 485 mm x 398 mm x 52 mm | 10.04 $dm^3$ | 2265.00 g |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.


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