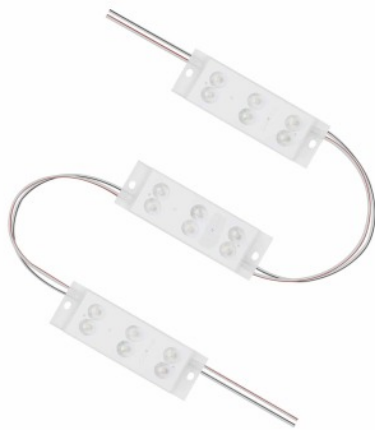


BoxLED Back Plus

LED modules for light advertising and backlighting



Areas of application

- Signage and illuminated advertising
- Backlighting of single and double-sided light boxes (backlighting)
- Permanent outdoor use in enclosed light boxes

Product benefits

- Modules are compatible with the BoxLED mounting profile
- Uniform illumination at high LED pitches thanks to Flat Ray technology
- 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: 12.80 m
- Type of protection (modules): IP66
- Special robust encapsulation
- Fully integrated heat sink



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Nominal wattage	Nominal wattage per LED module	Reverse Voltage	Input voltage range	Type of current
BX06BA -W4F-765	24.0 V	115.2 W	3.6 W	25 V	23...25 V	DC
BX06BA -W4F-840	24.0 V	115.2 W	3.6 W	25 V	23...25 V	DC
BX06BA -W4F-830	24.0 V	115.2 W	3.6 W	25 V	23...25 V	DC

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Luminous flux per module chain	Luminous flux per LED module
BX06BA -W4F-765	6500 K	> 70	Daylight	White	9280 lm	290 lm
BX06BA -W4F-840	4000 K	> 80	Cool White	White	7680 lm	240 lm
BX06BA -W4F-830	3000 K	> 80	Warm White	White	7680 lm	240 lm

Product description	Luminous efficacy
BX06BA -W4F-765	81 lm/W
BX06BA -W4F-840	67 lm/W
BX06BA -W4F-830	67 lm/W

Light technical data

Product description	Beam angle
BX06BA -W4F-765	155 °
BX06BA -W4F-840	155 °
BX06BA -W4F-830	155 °

LED module information

Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BX06BA -W4F-765	6	32	1
BX06BA -W4F-840	6	32	1
BX06BA -W4F-830	6	32	1

Product family datasheet

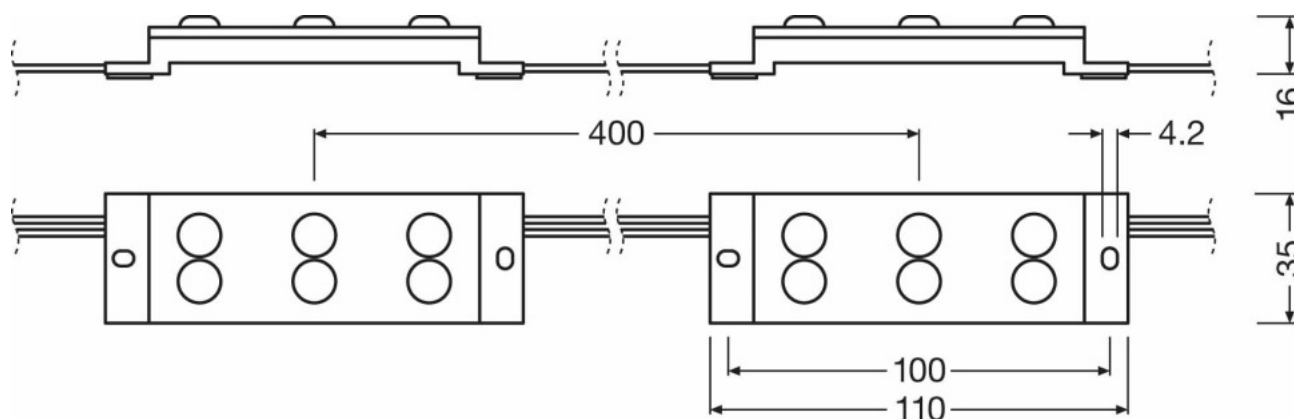
Dimensions & weight

Product description	Length	Width	Height	Product weight
BX06BA -W4F-765	12800 mm ¹⁾	35.0 mm	16.0 mm	1710.00 g ²⁾
BX06BA -W4F-840	12800 mm ¹⁾	35.0 mm	16.0 mm	1710.00 g ²⁾
BX06BA -W4F-830	12800 mm ¹⁾	35.0 mm	16.0 mm	1710.00 g ²⁾

¹⁾ Maximum LED pitch 400 mm

²⁾ Per chain

Product line drawing



BX06BA -W4F-765, BX06BA -W4F-840, BX06BA -W4F-830

Temperatures & operating conditions

Product description	Temperature range in operation [PIM]
BX06BA -W4F-765	-25...90 °C ¹⁾
BX06BA -W4F-840	-25...90 °C ¹⁾
BX06BA -W4F-830	-25...90 °C ¹⁾

¹⁾ At the T_c point

Product family datasheet

Lifespan

Product description	Lifespan
BX06BA -W4F-765	50000 h ¹⁾
BX06BA -W4F-840	50000 h ¹⁾
BX06BA -W4F-830	50000 h ¹⁾

¹⁾ L70/B50 at Tc 68 °C

Capabilities

Product description	Dimmable	Dimming range
BX06BA -W4F-765	Yes	5...100 %
BX06BA -W4F-840	Yes	5...100 %
BX06BA -W4F-830	Yes	5...100 %

Certificates & standards

Product description	Energy consumption	Energy efficiency class	Type of protection
BX06BA -W4F-765	4 kWh/1000h	A+	IP66
BX06BA -W4F-840	4 kWh/1000h	A+	IP66
BX06BA -W4F-830	4 kWh/1000h	A+	IP66

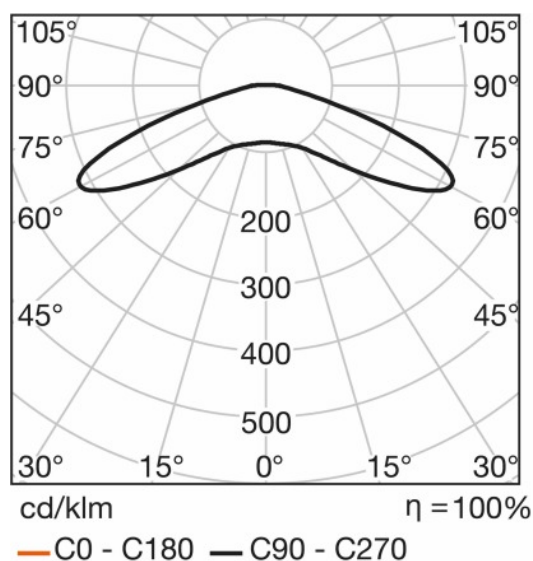
Product description	Standards
BX06BA -W4F-765	Acc. to EC 61347-2-13/Acc. to EN 55015/Acc. to IEC 61547/Acc. to IEC 61000-3-2
BX06BA -W4F-840	Acc. to EC 61347-2-13/Acc. to EN 55015/Acc. to IEC 61547/Acc. to IEC 61000-3-2
BX06BA -W4F-830	Acc. to EC 61347-2-13/Acc. to EN 55015/Acc. to IEC 61547/Acc. to IEC 61000-3-2

Logistical data

Product description	Temperature range at storage
BX06BA -W4F-765	-25...85 °C
BX06BA -W4F-840	-25...85 °C
BX06BA -W4F-830	-25...85 °C

Product family datasheet

Light Distribution



BX06BA -W4F-765, BX06BA -W4F-840, BX06BA -W4F-830

Equipment / Accessories

- Several types of OPTOTRONIC 24 V power supplies available

Application advice

For more detailed application information and graphics please see product datasheet.

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 strongly discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload and damage the LED module.

Product family datasheet












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 necessary operating parameters (voltage, current, power) has to be ensured.
- 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)

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	Brochures Impressive backlighting for signage and presentation (GB)
	Brochures Technical application guide BackLED PlusBasic G15 and BoxLED Plus G15 (GB)
	Declarations of conformity CE - Declaration of Conformity BoxLED Side Plus + BoxLED Back Plus
	Declarations of conformity EC-DoC BoxLED Back Plus
	Declarations of conformity Man-DoC BoxLED Back Plus
	Installation/Operation notice Installation Instructions BoxLED Back Plus
	Eulumdat BOXLED BACK PLUS BX06BA-W4F-765
	Eulumdat BoxLED BACK PLUS - BX06BA-W4F-765 (.IES)
	Eulumdat BOXLED BACK PLUS BX06BA-W4F-840
	Eulumdat BoxLED BACK PLUS - BX06BA-W4F-840 (.IES)
	IES data IES BoxLED Back Plus 4000k

Product family datasheet



Eulumdat
BOXLED BACK PLUS BX06BA-W4F-830



Eulumdat
BoxLED BACK PLUS - BX06BA-W4F-830 (.IES)



IES data
IES BoxLED Back Plus 3000K

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321828842	BX06BA -W4F-765	Shipping carton box 1	485 mm x 398 mm x 52 mm	10.04 dm ³	2088.00 g
4008321891853	BX06BA -W4F-765	Shipping carton box 1	- x - x -		
4008321891860	BX06BA -W4F-840	Shipping carton box 1	- x - x -		
4008321829047	BX06BA -W4F-830	Shipping carton box 1	485 mm x 398 mm x 52 mm	10.04 dm ³	2088.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
BX06BA -W4F-765	BoxLED, -MP	▶ 4008321981127
BX06BA -W4F-840	BoxLED, -MP	▶ 4008321981127
BX06BA -W4F-830	BoxLED, -MP	▶ 4008321981127

Disclaimer

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