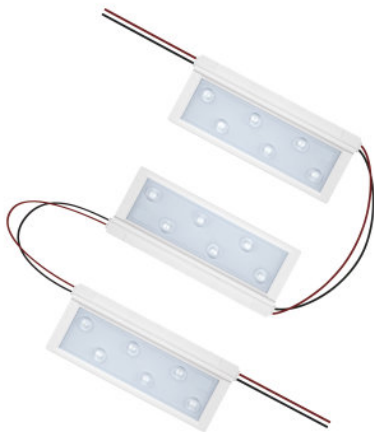


BA-DS-PL 865

BackLED DS Plus G15 | LED modules for light advertising and backlighting



Areas of application

- Signage and illuminated advertising
- Backlighting of double-sided light boxes and pylons
- Permanent outdoor use in enclosed light boxes

Product family benefits

- Uniform illumination at high LED pitches thanks to Flat Ray technology
- Click and Play: quick and easy click-in of the LED modules, no tools needed
- Excellent module efficacy
- Very long lifetime
- 5 year guarantee

Product family features

- Connected with flexible cables
- Type of protection (modules): IP66
- Color rendering index R_a : > 80
- Special robust encapsulation
- CE marked and UL listed



Technical data

Electrical data

Nominal voltage	24.0 V
Nominal wattage per chain	100.0 W
Nominal wattage per LED module	6.2 W
Reverse Voltage	25 V
Input voltage range	23...25 V
Type of current	DC

Photometrical data

Color temperature	6500 K
Color rendering index Ra	>80
Light color (designation)	Daylight
Light color LED	White
Luminous flux per module chain	9756 lm
Luminous flux per LED module	609.8 lm ¹⁾
Luminous efficacy	98 lm/W

¹⁾ 304.9 lm on each side

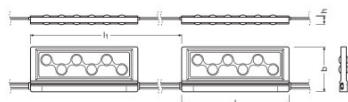
Light technical data

Beam angle	150 °
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LED module information

Number of LEDs per module	12
Number of LED modules per chain	16
Minimum operable number of LED modules	1

Dimensions & weight



Product datasheet

Length	110.0 mm ¹⁾
Width	56.0 mm
Height	12.1 mm
Product weight	1304.00 g ²⁾

¹⁾ Maximum LED pitch 400 mm

²⁾ Per chain

Temperatures & operating conditions

Temperature range in operation at T_c point	-25...80 °C ¹⁾
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¹⁾ At the T_c point

Lifespan

Lifespan	50000 h ¹⁾
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¹⁾ L70/B50 at T_c max. 80 °C

Capabilities

Dimmable	Yes
Dimming range	5...100 %

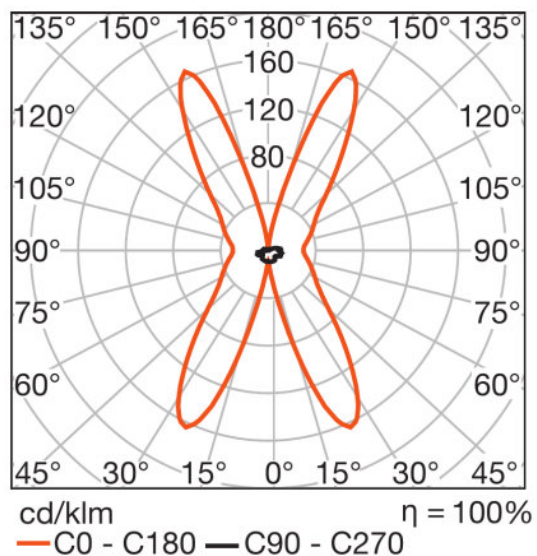
Certificates & standards

Energy efficiency class	A+
Type of protection	IP66
Standards	Acc. to EN 55015/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 61000-3-2
Approval marks – approval	CE

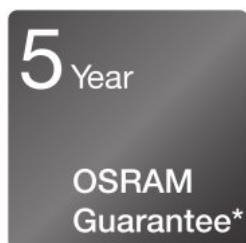
Logistical data

Temperature range at storage	-25...85 °C
Commodity code	940540399000

Light Distribution



LDC typ polar

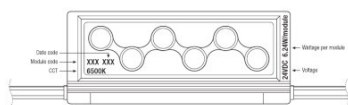


Guarantee

Equipment / Accessories

- Several types of OPTOTRONIC 24 V power supplies available
- BackLED DS Plus G15 mounting profile
- BackLED DS Plus G15 mounting brackets

Product datasheet











Others graphics

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 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.
- 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)
- Module contains no PVC material.
- To ensure uniform illumination, a reflective matt white surface is generally recommended for all internal frame walls and back panels of light boxes.
- The module may cause noises during dimming. If a dimming operation is required, it is recommended to check the dimming operation for noises before final installation.

Product datasheet

Download Data

File	
	User instruction 539570_Instruction manual for BackLED DS Plus G15
	Declarations of conformity 547365_EC-DoC BackLED DS Plus G15
	Declarations of conformity 547370_Manufacturer-DoC BackLED DS Plus G15
	CAD data 3-dim 544657_BA-DS-PL 865 G15 STEP File
	CAD data 3-dim 544726_BA-DS-PL 865 G15 IGS File
	CAD data PDF 607393_BackLED DS Plus G15 CAD PDF
	Eulumdat 547829_BackLED DS Plus 6500K G15 Eulumdat
	IES data 547477_BackLED DS Plus 6500K G15 IES

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899245891	BA-DS-PL 865	Shipping carton box 5	440 mm x 310 mm x 207 mm	28.23 dm ³	8406.00 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.

References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit

- ▶ www.osram.com/system-guarantee

Disclaimer

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