

## BackLED TW Plus G15

LED modules for light advertising and backlighting



### Areas of application

- Daylight simulation
- Spas
- Shops
- Offices
- Museums, art galleries
- Permanent outdoor use in enclosed light boxes or channel letters

### Product benefits

- Flexible programmable lighting moods in connection with light management systems
- Uniform backlighting of large surfaces thanks to extremely wide angle optics
- Simple fixing with M3 screws
- UV and IR-free light preserves exhibits
- 5 year guarantee

### Product features

- Connected with flexible cables
- Type of protection (modules): IP66
- Light color: dynamic 2700...6500 K
- Special robust encapsulation
- CE marked



## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Nominal wattage per chain	Reverse Voltage	Input voltage range	Type of current
BA-TW-PL 865-827 G15	24.0 V	96.00 W	24 V	23.5...24.5 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
BA-TW-PL 865-827 G15	2700 K	80	White	Tunable White	9200 lm	460 lm

Product description	Luminous efficacy	Standard deviation of color matching
BA-TW-PL 865-827 G15	95.8 lm/W	≤3 sdcn

#### Light technical data

Product description	Beam angle
BA-TW-PL 865-827 G15	150 °

#### LED module information

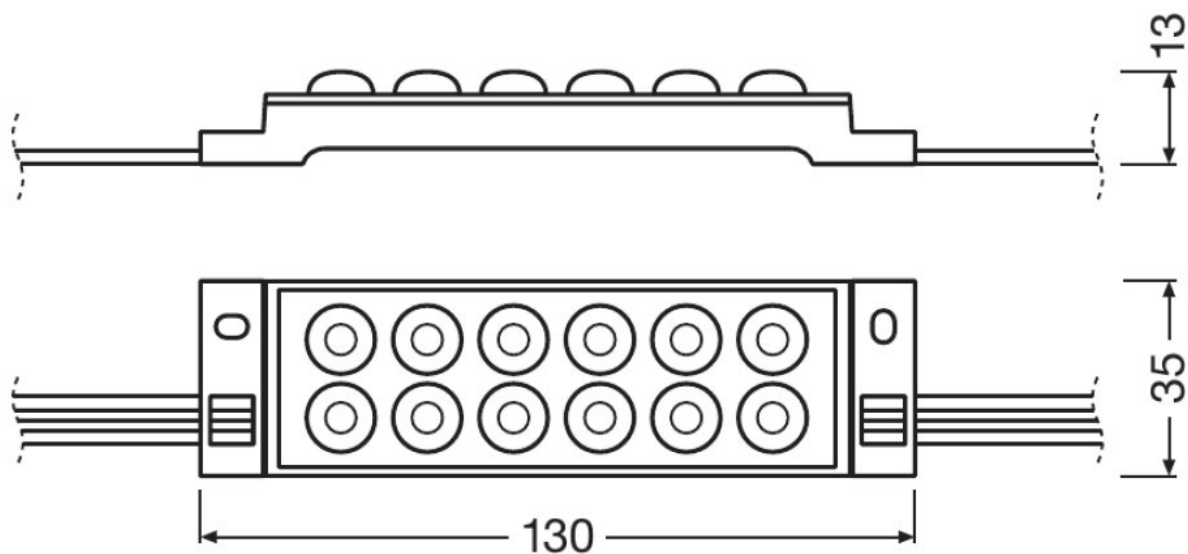
Product description	Number of LEDs per module	Number of LED modules per chain	Minimum operable number of LED modules
BA-TW-PL 865-827 G15	12	20	1

#### Dimensions & weight

Product description	Length	Width	Height	Product weight
BA-TW-PL 865-827 G15	130.0 mm	35.0 mm	12.3 mm	1388.00 g

## Product family datasheet

### Product line drawing



BA-TW-PL 865-827 G15

### Temperatures & operating conditions

Product description	Temperature range in operation
BA-TW-PL 865-827 G15	-25...55 °C

### Lifespan

Product description	Lifespan
BA-TW-PL 865-827 G15	50000 h

### Capabilities

Product description	Dimmable	Dimming range
BA-TW-PL 865-827 G15	Yes	5...100 %

## Product family datasheet

### Certificates & standards

Product description	Energy consumption	Energy efficiency class	Type of protection
BA-TW-PL 865-827 G15	6 kWh/1000h	A+	IP66

Product description	Standards
BA-TW-PL 865-827 G15	CE

### Logistical data

Product description	Temperature range at storage
BA-TW-PL 865-827 G15	-25...85 °C

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### Equipment / Accessories

- Seven types of OPTOTRONIC 24 V power supplies available
- BoxLED mounting profile BX-MP

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### Application advice

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

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### 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.

## Product family datasheet

- 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)
- All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the specified typical values for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.
- 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.








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### Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

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### Download Data

File
 Product Family Datasheet 718388_BackLED TW Plus G15 BackLED RGBW Plus G15
 Declarations of conformity 727530_EC BackLED PLUS
 Declarations of conformity 727532_Manufacturer's Declaration BackLED PLUS
 Installation guide 707887_Instruction Manual BackLED RGBW Plus G15 and TW Plus G15
 CAD data 721333_BackLED TW Plus G15 ISG
 CAD data 721334_BackLED TW Plus G15 STEP
 CAD data PDF 721338_BackLED TW Plus G15 PDF

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899946958	BA-TW-PL 865-827 G15	Shipping carton box 5	473 mm x 328 mm x 292 mm	45.30 dm <sup>3</sup>	9714.00 g

## Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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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.

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### References / Links

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

- ▶ [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

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### Disclaimer

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