

Light is Visual Experience
Impressive advertising
and backlighting

Light is OSRAM

OSRAM

Attracting attention, transforming environments: BackLED® and BoxLED® create highlights

In exterior and interior applications, OSRAM offers the most reliable and best performance product, BackLED® and BoxLED® families, to bring optimal visual experience in light boxes, channel letters and stretched ceilings.

Through continuous innovation, the advanced technology in sophisticated optics and brilliant compact module design can achieve high uniformity with precise optical control and deliver the highest design freedom to realize impressive illumination effect.





Channel letters

- Professional letter effect to strengthen brand image
- Slim letter design with ultra compact modules
- High consistency in color and brightness



Single-sided light boxes

- Homogeneous back-lighting with BackLED® technology
- High efficiency and lumen maintenance for energy saving
- Best reliability to reduce maintenance cost



Double-sided light boxes

- Homogeneous side-lighting with BoxLED® technology
- Easier installation on edges
- Best reliability to reduce maintenance cost



Stretched ceiling

- Low glare for general lighting purpose
- Flexible scene settings by changing ambience
- Human centric lighting with Tunable White solution



One-stop-shop components for optimal visual experience

A highly functional system not only requires high-performance LED modules, but also perfectly matched LED drivers, hands-on mounting accessories and an intelligent light management. For all of the above, OSRAM offers a complete portfolio, including comprehensive services and guaranteeing.

Complete systems from OSRAM: Comprehensive and reliable solutions

As one of the world's leading light manufacturers, OSRAM can support you during the implementation of your project: from system planning and the selection of matching components to the comprehensive product guarantee.

BackLED® for direct backlighting



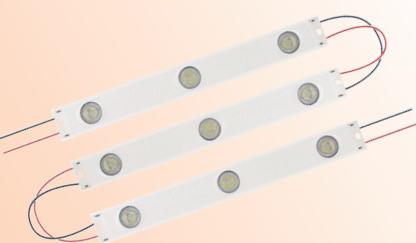
Ideally suitable for backlighting of flat and slim installation

BackLED Linear for direct backlighting



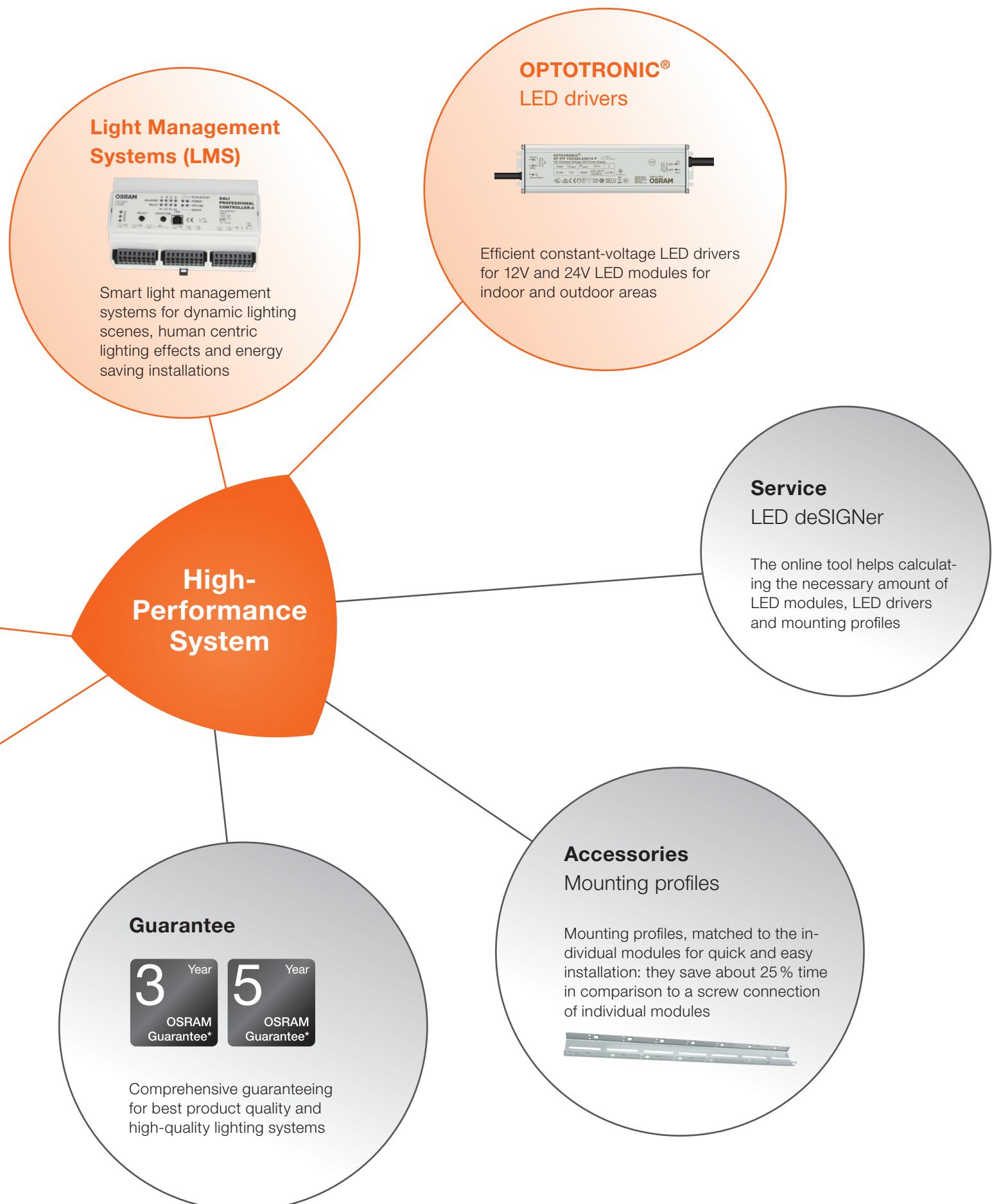
Ideally for high flux level requirement application

BoxLED® for backlighting by side injection



Designed for light boxes of various dimensions, especially for double-sided application

* Details about our terms of guarantee can be found at www.osram.com/guarantee



Innovative optics for optimal light effect



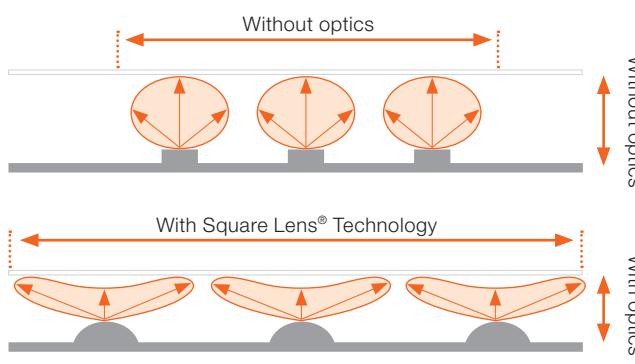
Optics improve illumination and reduce the number of required LED modules

Flat-Ray® Technology:

Optimized light distribution for optimal experience

Special optics can achieve homogeneous light distribution between individual modules even when the pitch between these LEDs is large. Overall, this means less modules are required for a perfect effect, and system cost can be further optimized. Moreover, another approach is to reduce the distance between the LED module and the backlit surface, and enables a slim and compact light box design.

Homogeneous light distribution through OSRAM Square Lens®Technology



Square Lens® Technology:

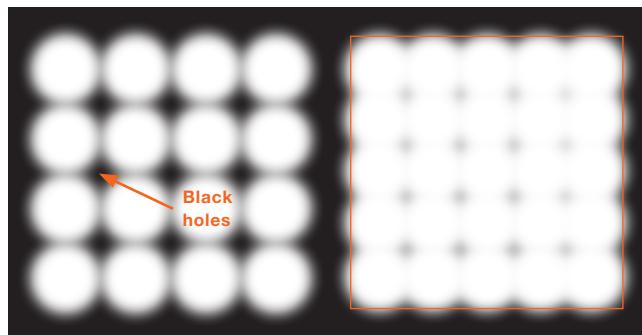
Global patented and ideal solution for backlighting

With this premium feature from OSRAM, system efficiency and light effect can be escalated to even higher level. By means of quadrant-symmetric light distribution, square lenses can achieve seamless illumination in an array and avoiding shadows appeared batwing-lens solution. This technology integrated in BackLED® Plus and CP families is an ideal solution of premium light boxes and stretched ceilings.

Installation and Design Guideline

Module Solution	Recommendation		
	Installation Min. Depth (mm)	Module Pitch (mm)	Depth: Pitch Ratio
BackLED XL CP G5	50	88-450	1:3
BackLED L CP G5	50	55-300	1:3
BackLED M-HO CP G4	40	60-200	1:2
BackLED M- HO CP G5	35	45-200	1:2
BackLED M CP G4	40	60-200	1:2
BackLED M CP G5	35	45-200	1:2
BackLED S CP G4	40	60-135	1:2
BackLED S CP G5	35	45-135	1:2
BackLED Mini-M CP G4	25	35-75	1:1.5
BackLED Mini-S CP G4	25	20-40	1:1.5
BackLED L CX G4	80	90-200	1:1.5
BackLED ECO M G2	60	60-200	1:1.1
BackLED RGBW Plus G2	100	140-400	1:2
BackLED TW CP G5	100	88-450	1:3
Dragon Wing G1	100	110-500	1:1.5

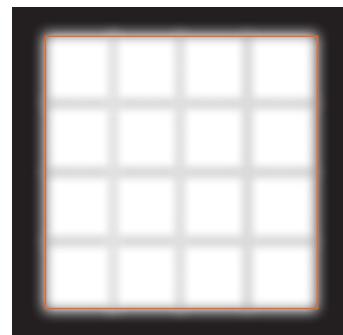
Normal lenses without special optics control



Shadow effect with black holes in 4x4 array

Improve uniformity by adding more modules for 5x5 array in the same area

Square Lens® Technology



Homogeneous illumination without black shadow in 4x4 array

Disadvantages:

- Inhomogeneous illumination, unless using more modules
- Highly system cost is required to achieve fairly good effect
- Higher labor cost is incurred in installation

Features:

- Homogeneous illumination, even in compact light box
- Optimized system and installation cost
- Innovative, patented lens technology from OSRAM



Mounting profiles for quick, easy and precise installation

Mounting provides the basis for the efficiency and economy of the entire system

Time and precision play an important role during installation. Consequently, a quick mounting process, which is optimally supported by mounting profiles from OSRAM, is proven to reduce labor cost and time effectively.

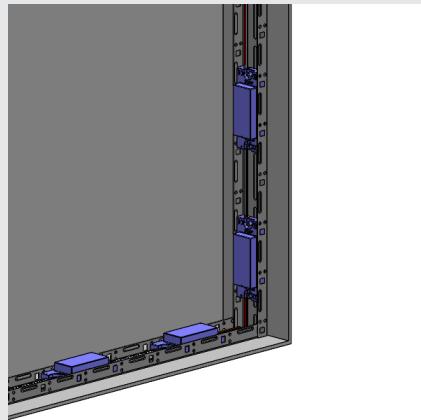
During pre-installation, the LED modules are simply snapped into the profiles which are then bolted down with screws driven through pre-drilled mounting holes. Thanks to the regular distances between the drill holes in the mounting profiles, the

modules can be placed in consistent pitch without the need of measuring. Along the profile, the user can adjust module pitch easily to achieve optimal light effect.

The consistent pitch between modules therefore ensures homogeneous illumination of the entire surface. Moreover, thanks to the strong aluminum profiles, the entire construction is highly robust and low-maintenance is needed.

Types and dimensions of mounting Profiles

1) Side injection (single-sided and double-sided)



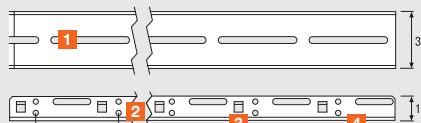
Along the inner sides of the edges with BoxLED® modules

2) Backlighting (single-sided)



On the back wall of the light box with BackLED® modules

Mounting profile BX-MP

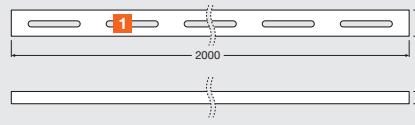


Total length: 2365 mm

Mounting profile BA-MP

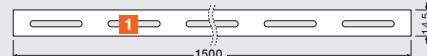


Mounting profile BA-SM-MP



Total length: 2000 mm

Mounting profile BA-MP-M-CP



Total length: 1500 mm

1 Slot holes for the mounting of the profile on the rear board or side board of the light box.

2 Holes for the easy installation of a mounting grid. The constant hole spacing of 55/50 mm provides consistent pitches of LED modules without measuring.

3 Square holes for simple fixing of electrical cables with cable ties.

4 Embossings/edges for the easy click-in of the individual LED modules (Click & Play).

Design beyond your imagination: BackLED® family

The modules of the BackLED® family offer a broad range of various versions for direct backlighting to signage manufacturers, electricians, lighting planners and architects.

BackLED® Plus and CP (Core Product) G4 family are integrated with Square Lens® technology for premium single-sided backlighting in various dimensions. BackLED® M CP G4 family is a future-proof platform and has evolved into High-Output and Advanced versions.

Another new innovative product, BackLED® Mini CP G4 family, brings ultra compact module solution for slim channel letter to achieve stylish brand image. Dragon Wing family provides linear module solution to simplify installation in large-area light boxes and stretched ceilings. All families introduced previously can support 5-year guarantee.

In addition, BackLED® CX (Core Xperience) is the new family to fulfill essential requirements in light boxes. Together with original BackLED® ECO M G2 family, both offer 3-year guarantee.

In response to the market needs in Human Centric Lighting (HCL), BackLED® TW Plus presents a broad range of white light colors and the RGBW version is available for dynamic color application.

The product range at a glance:

BackLED® XL CP G5

BackLED® L CP G5

BackLED® M HO CP G5

BackLED® M CP G5

BackLED® S CP G5

BackLED® M-HO CP G4

BackLED® M CP G4

BackLED® Mini-M CP G4

BackLED® Mini-S CP G4

Dragon Wing G1

BackLED® L CX G4

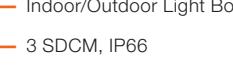
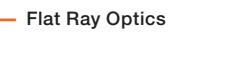
BackLED® ECO M G2

BackLED® RGBW Plus G2

BackLED® TW CP G5

BackLED® Signage Modules

Portfolio Segmentation

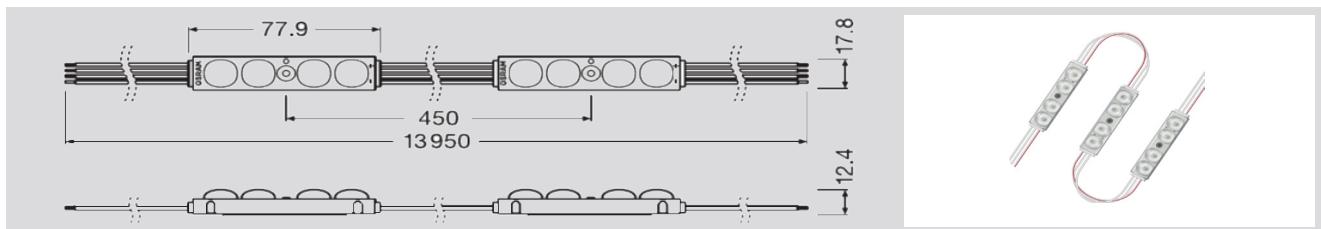
Dynamic Light	BA-RGBW-PL-G2 134 x 35 x 13.5	BA-TW-CP-G5 77.9 x 17.8 x 12.4	CP – Core Product	<ul style="list-style-type: none"> — COT 2700-6500K tunable — RGBW 4-channel control — Dynamic Light effect  
	 10-48lm 2.84W	 277lm 2W		
Light Box / Stretched ceiling	BA-XL-CP-G5 77.9 x 17.8 x 12.4	BA-L-CP-G5 44.7 x 17.8 x 12.4	BA-M-HO-CP-G5 35.5 x 12.2 x 10.3	BA-M-HO-CP-G5 35.5 x 12.2 x 10.3
	 300lm 2W	 180lm 1.2W	 150lm 1W	 90lm 0.6W
Channel Letters	BA-M-HO-CP-G4 47.5 x 13.8 x 6.8	BA-M-CP-G4 47.5 x 13.8 x 6.8	BA-S-CP-G5 35.5 x 12.2 x 10.3	BA-S-CP-G5 35.5 x 12.2 x 10.3
	 131lm 1.2W	 77lm 0.72W	 45lm 0.3W	     
Light Box	BA-Mini-S-CP-G4 14.9x8.4x6.2	BA-Mini-S-CP-G4 14.9x8.4x6.2	 39lm 0.36W	 39lm 0.36W
	 162lm 1.5W	CX – Core Xperience	  	   

Accessory Matching Table

EAN 10 Code	Product Short Text	Dimension (mm)	BackLED*	BoxLED*
4052899145863	BA-MP	L 2000 x W 20 x H 8	●	●
4052899629189	BA-MP-L-G5-2M	L 2000 x W 20 x H 8.3	●	●
4052899629196	BA-MP-SM-G5-2M	L 2000 x W 14.4 x H 7.3	●	●
4062172168410	BA-MP-M-CP-2M	L 2000 x W 14.5 x H 8		●
4062172168571	BA-MP-M-CP-1.5M	L 1500 x W 14.5 x H 8		●
4008321981110	BX-MP	L 2365 x W 38 x H 16		●
4052899629325	BA-CLIP-L-G5	L 22.4 x W 15	●	
4052899629349	BA-CLIP-SM-G5	L 16.5 x W 15	●	●

BackLED® TW CP G5

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-TW-CP-827.865-24-G5	4052899627253	Warm White	2700K	30	450	127	155	24	2	60	66	50	5	10

Product Features

- Tunable CCT range: 2700K to 6500K
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Wide color gamut through color mixing
- 2 channels independently control
- Compatible with OTi DALI TW Constant voltage drivers
- Simple fixing with M3 screws
- High reliability with L70B50 Lifetime in 50Khrs
- 5 year guarantee

Applications

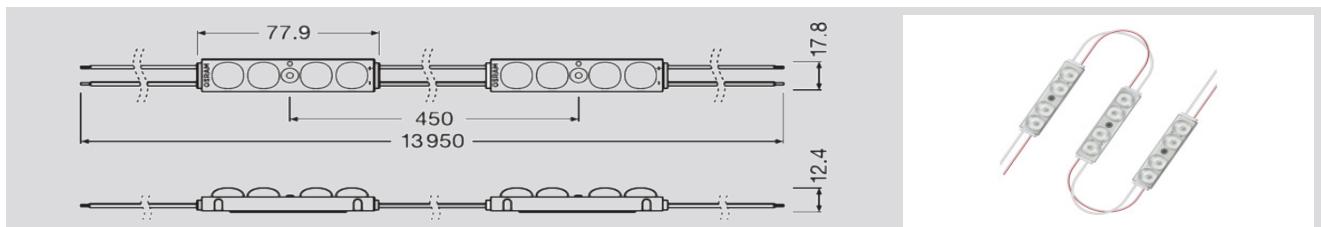
- Dynamic white backlighting
- Human centric lighting
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 150mm
- Recommended ratio of Depth : Pitch = 1 : 2

Accessories

- Mounting profile BA-MP-L-G5-2M (EAN 4052899629189)
- Cable clip BA-CLIP-L-G5 (EAN 4052899629325)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

BackLED® XL CP G5

IP66



Product Description	EAN10	Color	CCT (K)*	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-XL-CP-865-24-G5	4052899627222	Cool White	6500	30	450	274	155	24	2	60	66	50	5	10
BA-XL-CP-840-24-G5	4052899627239	Neutral White	4000	30	450	274	155	24	2	60	66	50	5	10
BA-XL-CP-830-24-G5	4062172223737	Warm White	3000	30	450	277	155	24	2	60	66	50	5	10
BA-XL-CP-827-24-G5	4052899627246	Warm White	2700	30	450	254	155	24	2	60	66	50	5	10

Product Features

- High flux output: Up to 277lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 139 lm/W for energy saving
- 1-100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 75 °C)
- 5 year guarantee

Applications

- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 100mm
- Recommended ratio of Depth : Pitch = 1 : 3

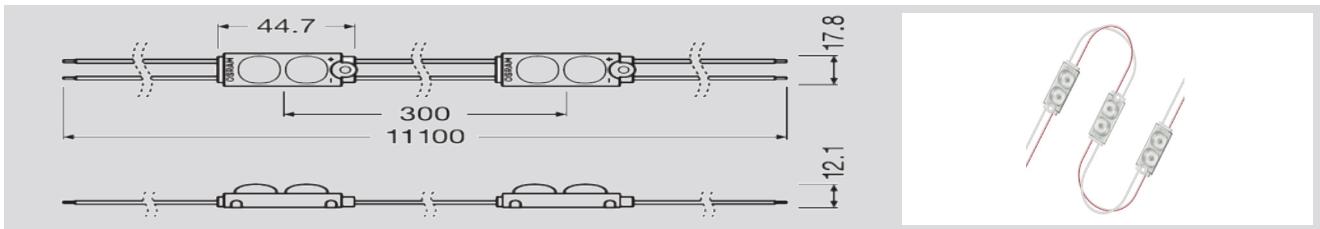
Accessories

- Mounting profile BA-MP-L-G5-2M (EAN 4052899629189)
- Cable clip BA-CLIP-L-G5 (EAN 4052899629325)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data;
All values are tested at Ta25 °C.

BackLED® L CP G5

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-L-CP-810-G5	4052899627390	Ultra-Cool white	10000	36	300	150	155	24	1.2	43.2	66	50	5	15
BA-L-CP-880-G5	4052899627406	Cool White	8000	36	300	150	155	24	1.2	43.2	66	50	5	15
BA-L-CP-871-G5	4052899627413	Cool White	7100	36	300	160	155	24	1.2	43.2	66	50	5	15
BA-L-CP-865-G5	4052899627420	Cool White	6500	36	300	160	155	24	1.2	43.2	66	50	5	15
BA-L-CP-840-G5	4052899627437	Neutral White	4000	36	300	160	155	24	1.2	43.2	66	50	5	15
BA-L-CP-830-G5	4052899627444	Warm White	3000	36	300	153	155	24	1.2	43.2	66	50	5	15

Product Features

- High flux output: Up to 160lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 133 lm/W for energy saving
- 1-100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 75 °C)
- 5 year guarantee

Applications

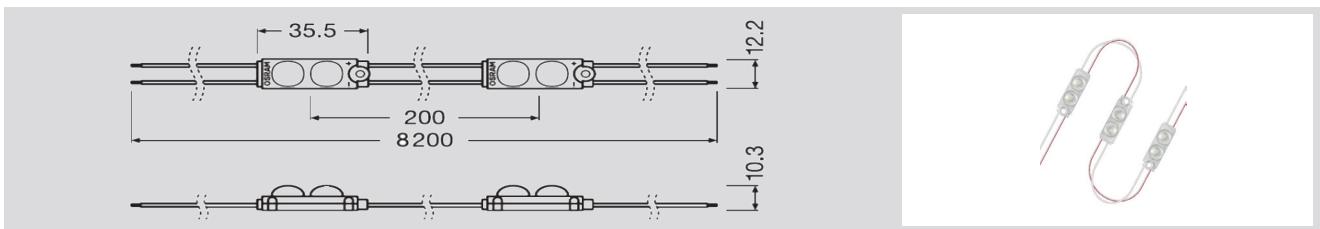
- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 80mm
- Recommended ratio of Depth : Pitch = 1 : 3

Accessories

- Mounting profile BA-MP-L-G5-2M (EAN 4052899629189)
- Cable clip BA-CLIP-L-G5 (EAN 4052899629325)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

BackLED® M HO CP G5

IP66



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-M-HO-CP-810-24-G5	4052899627550	Ultra-Cool white	10000	40	200	124	155	24	1	40	66	50	5	30
BA-M-HO-CP-880-24-G5	4052899627567	Cool White	8000	40	200	129	155	24	1	40	66	50	5	30
BA-M-HO-CP-871-24-G5	4052899627574	Cool White	7100	40	200	133	155	24	1	40	66	50	5	30
BA-M-HO-CP-865-24-G5	4052899627581	Cool White	6500	40	200	135	155	24	1	40	66	50	5	30
BA-M-HO-CP-840-24-G5	4052899627598	Neutral White	4000	40	200	129	155	24	1	40	66	50	5	30
BA-M-HO-CP-830-24-G5	4052899627604	Warm White	3000	40	200	124	155	24	1	40	66	50	5	30

Product Features

- High flux output: Up to 135lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 135 lm/W for energy saving
- 1-100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 70 °C)
- 5 year guarantee

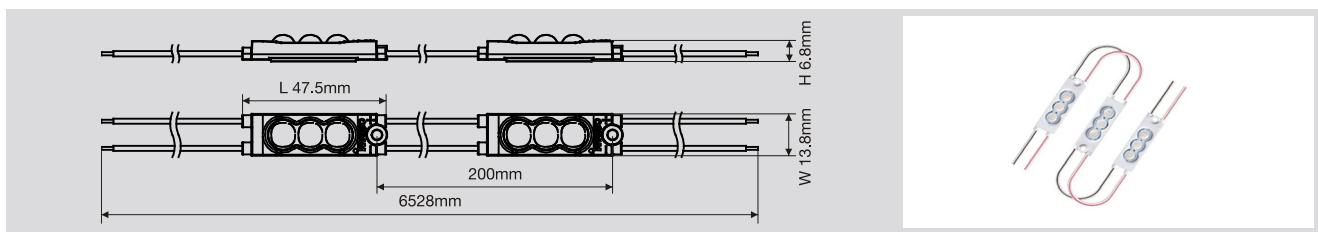
Applications

- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Backlighting of medium light boxes
- Recommended Minimal light box depth: 60mm
- Recommended ratio of Depth : Pitch = 1 : 2

Accessories

- Mounting profile BA-MP-SM-G5-2M (EAN 4052899629196)
- Cable clip BA-CLIP-SM-G5 (EAN 4052899629349)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

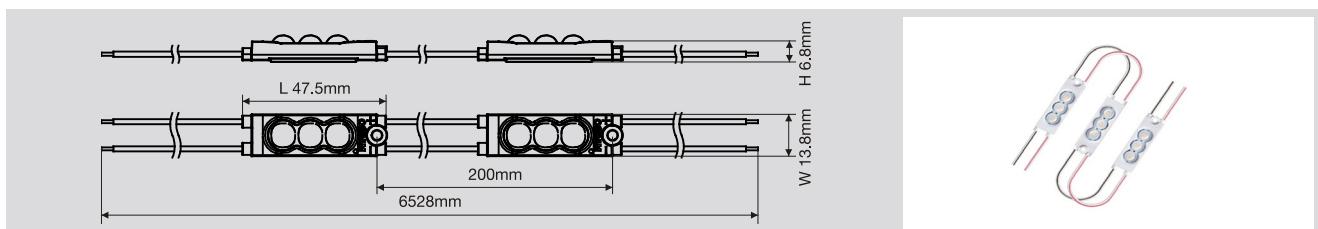
*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data;
All values are tested at Ta25 °C.

BackLED® M-HO CP G4**IP66**
5 years
OSRAM
Guarantee


Product Description	EAN10	Color	Wave length (nm) CCT(K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-M-HO-CP-880 G4	4062172131162	Cool White	8000K	40	200	122	150	12	1.2	48	66	50	5	50
BA-M-HO-CP-865 G4	4062172131186	Cool White	6500K	40	200	131	150	12	1.2	48	66	50	5	50
BA-M-HO-CP-840 G4	4062172131209	Neutral White	4000K	40	200	131	150	12	1.2	48	66	50	5	50
BA-M-HO-CP-830 G4	4062172131223	Warm White	3000K	40	200	122	150	12	1.2	48	66	50	5	50

Product Features

- High flux output: 131lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT options, up to 8000K
- High color consistency: < 3 SDCM (except for CCT 8000K)
- CE marked, BIS certified

BackLED® M CP G4**IP66**
5 years
OSRAM
Guarantee


Product Description	EAN10	Color	Wave length (nm) CCT(K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-M-CP-880 G4	4052899592971	Cool White	8000K	40	200	77	155	12	0.72	28.8	66	50	5	50
BA-M-CP-865 G4	4052899592995	Cool White	6500K	40	200	77	155	12	0.72	28.8	66	50	5	50
BA-M-CP-840 G4	4052899593022	Neutral White	4000K	40	200	77	155	12	0.72	28.8	66	50	5	50
BA-M-CP-830 G4	4052899593053	Warm White	3000K	40	200	73	155	12	0.72	28.8	66	50	5	50
BA-M-CP-RED G4	4052899593084	Red	625nm	40	200	21	155	12	0.6	24	66	50	5	50
BA-M-CP-BLUE G4	4052899593114	Blue	470nm	40	200	9	155	12	0.6	24	66	50	5	50

Advanced (A) version

BA-M-CP-865-G4 A	4062172088527	Cool White	6500K	40	200	79	155	12	0.72	28.8	66	50	5	50
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Product Features

- Module flux output: 79lm/module
- Advanced version (A): Premium feature of halogen-free module without gas hazard, and PVC free
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT and chromatic color options
- High color consistency: < 3 SDCM (except for CCT 8000K)
- CE marked, BIS certified

Product Benefits

- Square Lens® technology to achieve optimal uniformity
- High efficacy up to 110 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 70 °C)
- 5 year guarantee

Applications

- Backlighting of small to medium size channel letters
- Backlighting of luminous ceilings and areas
- Backlighting of medium light boxes
- Recommended Minimal light box depth: 40mm
- Recommended ratio of Depth : Pitch = 1 : 2

Accessories

- Mounting profile BA-MP-M-CP-1.5M (EAN 4062172123815)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

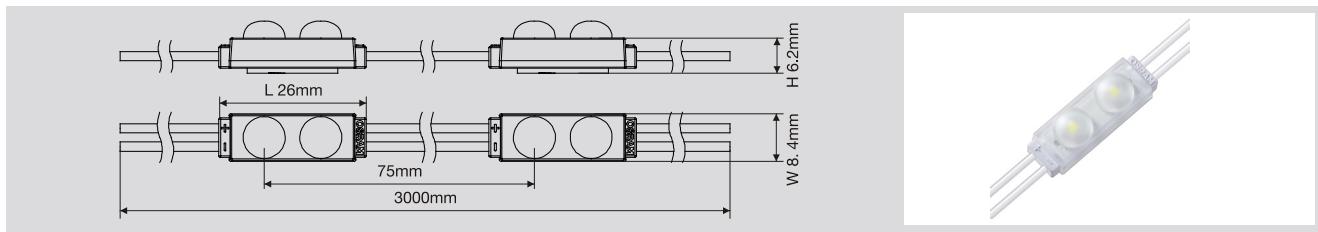
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All values are tested at Ta25 °C.

BackLED® Mini-M CP G4

IP66



5 years
OSRAM
Guarantee



Product Description	EAN10	Color	Wave length (nm) CCT(K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-Mini-M-CP-810-G4	4062172145800	Ultra Cool White	10000K	40	75	72	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-871-G4	4062172145787	Cool White	7100K	40	75	79	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-865-G4	4062172145763	Cool White	6500K	40	75	79	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-840-G4	4062172145718	Neutral White	4000K	40	75	79	140	12	0.72	28.8	66	50	5	40
BA-Mini-M-CP-830-G4	4062172145695	Warm White	3000K	40	75	72	140	12	0.72	28.8	66	50	5	40

Product Features

- Module flux output: 79lm/module
- Ultra slim form factor: 8.4mm in width
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to Ultra Cool White 10,000K
- High color consistency: < 3 SDCM
- CE marked, BIS certified

Product Benefits

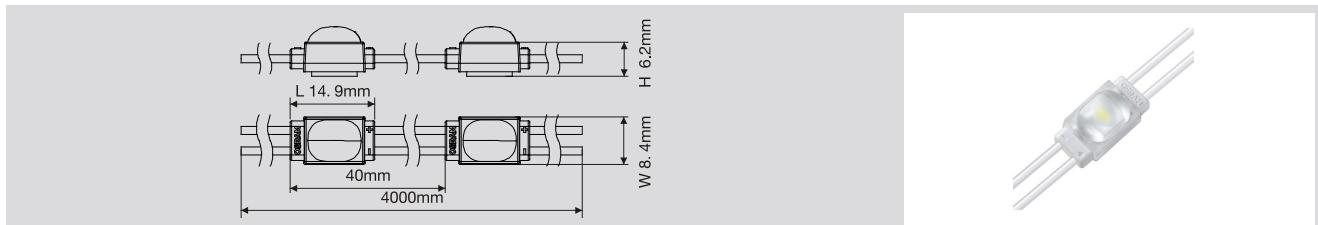
- Flat Ray Lens technology to achieve good uniformity
- Deliver the highest freedom in slim channel letter design
- Efficacy up to 110 lm/W for energy saving
- 1-100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 80 °C)
- 5 year guarantee

Applications

- Slim channel letters, width >9mm
- Recommended Minimal letter depth: 25mm
- Recommended ratio of Depth : Pitch = 1:1.5

BackLED® Mini-S CP G4

IP66



Product Description	EAN10	Color	CCT(K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-Mini-S-CP-810-G4	4062172145909	Ultra Cool White	10000K	100	40	36	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-871-G4	4062172145886	Cool White	7100K	100	40	39	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-865-G4	4062172145862	Cool White	6500K	100	40	39	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-840-G4	4062172145848	Neutral White	4000K	100	40	39	160x120	12	0.36	36	66	50	5	40
BA-Mini-S-CP-830-G4	4062172145824	Warm White	3000K	100	40	36	160x120	12	0.36	36	66	50	5	40

Product Features

- Module flux output: 39lm/module
- Ultra slim form factor: 8.4mm in width
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to Ultra Cool White 10,000K
- High color consistency: < 3 SDCM
- CE marked, BIS certified

Product Benefits

- Oval Lens technology to achieve high uniformity along slim letters
- Deliver the highest freedom in slim channel letter design
- Efficacy up to 108 lm/W for energy saving
- 1-100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 80 °C)
- 5 year guarantee

Applications

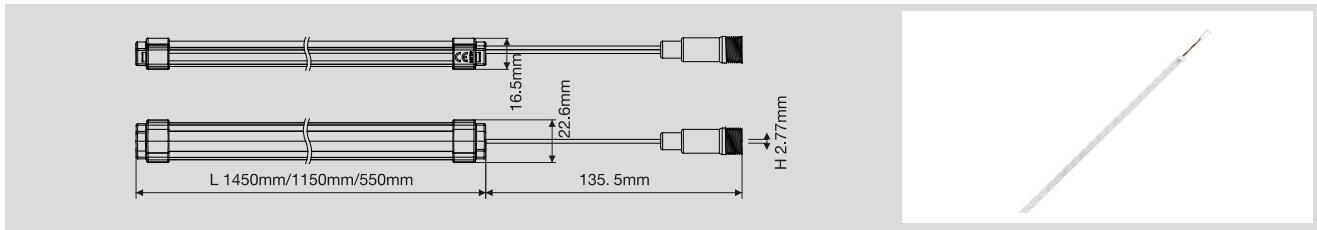
- Slim channel letters, width >9mm
- Recommended Minimal letter depth: 25mm
- Recommended ratio of Depth : Pitch = 1:1.5

*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data;
All values are tested at Ta25 °C.

DragonWing DW G1

IP65

5 years
OSRAM
Guarantee



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
DW1000-G1-15 880	4052899597990	Cool White	8000K	35	40	1600	150x110	24	16.8	65	50	5	50
DW1000-G1-15 865	4052899598010	Cool White	6500K	21	80	1650	150x110	24	14.4	65	50	5	50
DW1000-G1-12 880	4052899598041	Cool White	8000K	28	40	1280	150x110	24	13.4	65	50	5	50
DW1000-G1-12 865	4052899598065	Cool White	6500K	14	80	1340	150x110	24	12.0	65	50	5	50
DW1000-G1-12 840	4052899598089	Neutral White	4000K	14	80	1380	150x110	24	12.0	65	50	5	50
DW1000-G1-12 830	4052899598102	Warm White	3000K	14	80	1320	150x110	24	12.0	65	50	5	50
DW1000-G1-06 880	4052899598126	Cool White	8000K	14	40	630	150x110	24	6.7	65	50	5	50
DW1000-G1-06 865	4052899598140	Cool White	6500K	7	80	670	150x110	24	6.0	65	50	5	50
DW1000-G1-06 840	4052899598164	Neutral White	4000K	7	80	690	150x110	24	6.0	65	50	5	50
DW1000-G1-06 830	4052899598188	Warm White	3000K	7	80	660	150x110	24	6.0	65	50	5	50

Product Features

- IP65 protection design
- CRI80, 3SDCM* for quality of light
- 50,000h lifespan
- 5 years system guarantee with OSRAM drivers
- Exclude 8000K series, 8000K series is 5 SDCM

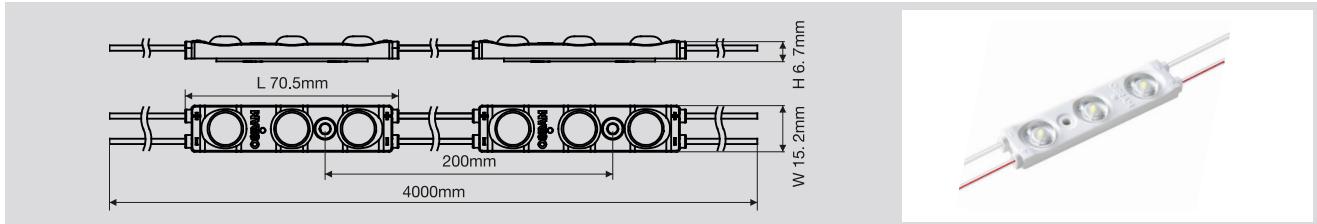
Product Benefits

- Tube-like solution with pre-mounted connector and clips for easy installation and maintenance
- Elliptical optic design for good uniformity
- Pre-mounted IP connector for plug-in connection
- Clips for easy installation and maintenance

BackLED® L CX G4

IP66

3 years
Flat-Ray
Technology
OSRAM
Guarantee



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-L-CX-810-G4	4062172145671	Ultra Cool White	10000K	20	200	150	160	12	1.5	30	66	30	3	30
BA-L-CX-871-G4	4062172145657	Cool White	7100K	20	200	162	160	12	1.5	30	66	30	3	30
BA-L-CX-865-G4	4062172145633	Cool White	6500K	20	200	162	160	12	1.5	30	66	30	3	30
BA-L-CX-840-G4	4062172145619	Neutral White	4000K	20	200	162	160	12	1.5	30	66	30	3	30
BA-L-CX-830-G4	4062172145596	Warm White	3000K	20	200	150	160	12	1.5	30	66	30	3	30

Product Features

- Module flux output: 162lm/module
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Wide CCT range, up to Ultra Cool White 10,000K
- High color consistency: < 3 SDCM
- CE marked, BIS certified

Product Benefits

- Flat Ray Lens technology to achieve good uniformity
- Efficacy up to 108 lm/W for energy saving
- 1~100% Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 30Khrs (at Tc 80 °C)
- 3 year guarantee

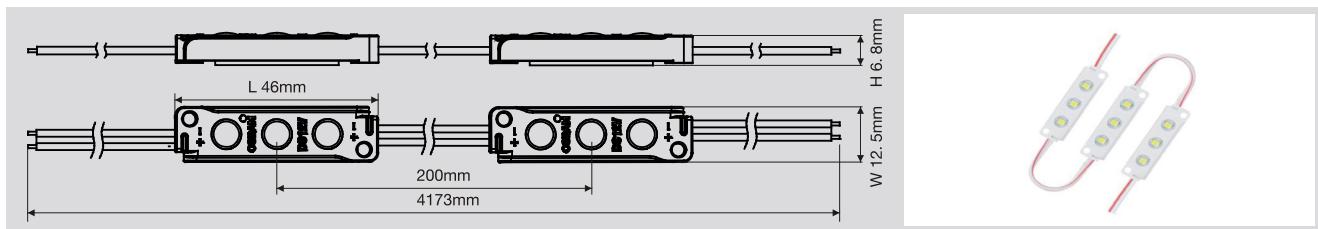
Applications

- Backlighting of medium to large size channel letters
- Backlighting of luminous ceilings and areas
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 80mm
- Recommended ratio of Depth : Pitch = 1 : 1.5

*Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data;
All values are tested at Ta25 °C.

BackLED® ECO M G2**IP64**

3 years
OSRAM
Guarantee



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (%)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-ECO-M-880-G2	4062172121514	Cool White	8000K	20	200	76	120	12	0.67	13.4	64	30	3	80
BA-ECO-M-865-G2	4062172121637	Cool White	6500K	20	200	76	120	12	0.72	14.4	64	30	3	80
BA-ECO-M-857-G2	4062172121972	Cool White	5700K	20	200	76	120	12	0.72	14.4	64	30	3	80
BA-ECO-M-840-G2	4062172121798	Neutral White	4000K	20	200	76	120	12	0.72	14.4	64	30	3	80
BA-ECO-M-830-G2	4062172121873	Warm White	3000K	20	200	73	120	12	0.72	14.4	64	30	3	80
BA-ECO-M-BLUE-G2	4062172121958	Blue	457nm	20	275	9.5	120	12	0.6	12	64	20	2	80
BA-ECO-M-RED-G2	4052899333765	Red	622nm	20	200	21	120	12	0.6	12	64	20	2	80

Product Features

- Module flux output: 76lm/module
- Type of protection (modules): IP64
- Color rendering index Ra: > 80
- Wide CCT range, up to 8000K
- High color consistency: < 3 SDCM (self binning)
- CE marked, BIS certified

Product Benefits

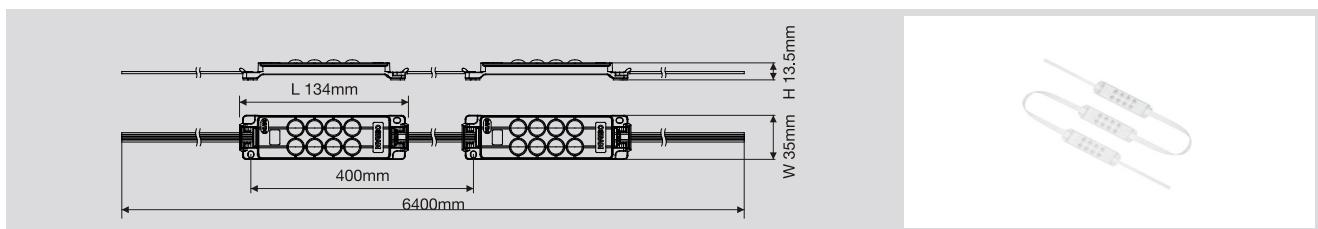
- Efficacy up to 106 lm/W for energy saving
- High reliability with L70B50 Lifetime in 30Khrs (at Tc 60 °C)
- Up to 3 year guarantee

Applications

- Backlighting of small to medium size light boxes
- Recommended Minimal light box depth: 60mm
- Recommended ratio of Depth : Pitch = 1 : 1.5

BackLED® RGBW Plus G2**IP66**

5 years
OSRAM
Guarantee



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch (lm)	Flux per Module (lm)	Beam Angle (%)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (khrs)	Warranty (yrs)	S-Unit
BA-RGBW-PL G2	4062172030168	Red	620nm	15	200	33	155	24	2.84	42.6	66	50	5	5
BA-RGBW-PL G2	4062172030168	Green	525nm	15	200	64	155	24	2.84	42.6	66	50	5	5
BA-RGBW-PL G2	4062172030168	Blue	464nm	15	200	10	155	24	2.84	42.6	66	50	5	5
BA-RGBW-PL G2	4062172030168	Cool White	6500K	15	200	48	155	24	2.84	42.6	66	50	5	5

Product Features

- Available light color: Red, Green, Blue, White 6500K
- Cuttable in every 3 modules, 15 modules per chain
- Type of protection (modules): IP66
- Color rendering index Ra: > 80
- Color consistency: < 5 SDCM
- CE marked, BIS certified

Product Benefits

- Wide color gamut through color mixing
- RGBW 4-channel independently control
- Compatible with OTI DALI 1-4CH
- Simple fixing with M3 screws
- High reliability with L70B50 Lifetime in 50Khrs
- 5 year guarantee

Applications

- Dynamic color backlighting
- Decorative lighting application
- Permanent outdoor use in enclosed light boxes
- Recommended Minimal light box depth: 100mm
- Recommended ratio of Depth : Pitch = 1 : 2

Accessories

- Mounting profile BX-MP (EAN 4008321981110)
- Click and Play: quick and easy click-in of the LED modules, no tools needed- Recommended ratio of Depth : Pitch = 1 : 2

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All values are tested at Ta25 °C.

Bringing Magic into light boxes: BoxLED® Plus

Brilliant side-lighting technology for single-sided and double-sided light boxes



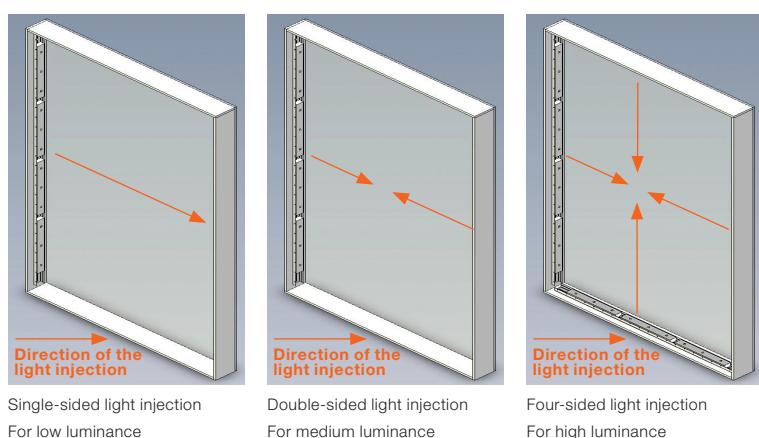
BoxLED® Plus* modules were developed for side injection into single-sided and double-sided light boxes which are painted or coated matt white inside, while elliptical optics provide homogeneous light distribution in the interior. Precise optical control also avoids hot spots and color rings at edges.

According to the size of the light boxes and the required amount of light, the modules can be placed on one side, on two sides or even around all four sides (see the illustrations below).

The product range at a glance:

BoxLED® M Plus G3

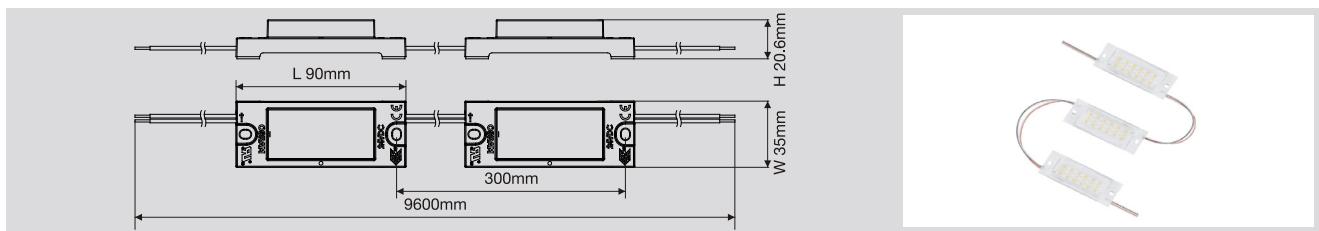
BoxLED® XS Plus G3



* All products of the BoxLED® Plus family comply with energy efficiency class A or higher

BoxLED® M Plus G3

IP66 **IP68**  **5 years OSRAM Guarantee**



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (yrs) (khrs)	Warranty (yrs)	S-Unit
BX-M-PL 865 G3	4052899493155	Cool White	6500K	32	300	320	12x70	24	3	96	66/68	50	5	5
BX-M-PL 840 G3	4052899493179	Neutral White	4000K	32	300	320	12x70	24	3	96	66/68	50	5	5
BX-M-PL 830 G3	4052899493193	Warm White	3000K	32	300	305	12x70	24	3	96	66/68	50	5	5

Product Features

- High flux output: 320lm/module
- Optimized elliptical lens for side-lighting
- Type of protection (modules): IP66/IP68
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized component

Product Benefits

- Elliptical lens to achieve optimal uniformity from side lighting
- Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 55 °C)
- 5 year guarantee

Applications

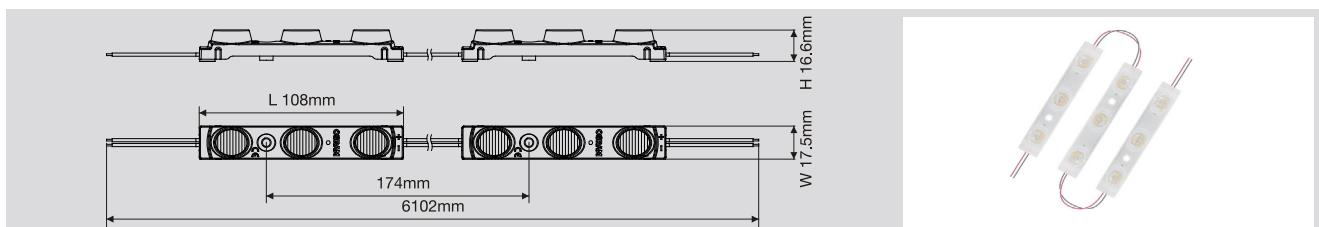
- Permanent outdoor use in enclosed light boxes
- Signage and illuminated advertising
- Illumination of single and double-sided light boxes
- Recommended light box depth: 150-400mm

Accessories

- Mounting profile BX-MP (EAN 4008321981110)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

BoxLED® XS Plus G3

IP66 **IP68**  **5 years OSRAM Guarantee**



Product Description	EAN10	Color	Color Temp (K)	Module Qty per Chain (pcs)	Module Pitch	Flux per Module (lm)	Beam Angle (°)	Voltage (V)*	Power per Module (W)	Power per Chain (W)	IP Rating	L70B50 Lifetime (yrs) (khrs)	Warranty (yrs)	S-Unit
BX-XS-PL 865 G3	4052899989696	Cool White	6500K	32	174	135	12x34	12	1.3	42	66/68	50	5	5
BX-XS-PL 840 G3	4052899989719	Neutral White	4000K	32	174	135	12x34	12	1.3	42	66/68	50	5	5
BX-XS-PL 830 G3	4052899989733	Warm White	3000K	32	174	135	12x34	12	1.3	42	66/68	50	5	5

Product Features

- High flux output: 135lm/module
- Optimized elliptical lens for side-lighting
- Type of protection (modules): IP66/IP68
- Single bin LEDs for all CCTs
- High color consistency: < 3 SDCM
- CE marked, ENEC certified, UL recognized component

Product Benefits

- Elliptical lens to achieve optimal uniformity from side lighting
- Dimming operation with OT DIM, OT DALI DIM
- High reliability with L70B50 Lifetime in 50Khrs (at Tc 70 °C)
- 5 year guarantee

Applications

- Permanent outdoor use in enclosed light boxes
- Signage and illuminated advertising
- Illumination of single and double-sided light boxes
- Recommended light box depth: 60-100mm

Accessories

- Mounting profile BA-MP (EAN 4052899145863)
- Click and Play: quick and easy click-in of the LED modules, no tools needed

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LED deSIGNer

By entering only some basic data in the online software LED deSIGNer automatically calculates the exact number of components of LED modules, LED drivers and mounting profiles for a given application.

Tool <https://www.osram.com/ds/tools/leddesigner.jsp>

OPTOTRONIC® and ELEMENT Constant Voltage Driver and Dimmer Overview

Output voltage	Dimming	Indoor(IP20)	Outdoor (IP64~67)	Warranty
24V	12V	Non-Dim	OT FIT 12 P	
	Bluetooth	OTi BLE 24 OT BLE DIM		
	DALI2	OTi DALI 24 OTi DALI DIM(Dimmer)	OTi DALI 24 P	5
	1-10V	OT DIM (Dimmer)	OT 24 DIM P G2	
	DMX	OT DMX RGBW DIM (Dimmer)		
	Non-Dim	OT SLIM 24	OT 24 P G2 OT FIT 24 P	
	Non-Dim	ELEMENT 24		3

OPTOTRONIC® Driver Matching Table

BA-L-PL-G3	BA-L-CX-G4	BA-M-HO-CP-G4	BA-M-CP-G4 ADV	BA-M-CP-G4	BA-ECO-M-G2	BA-Mini-M-CP-G4	BA-Mini-S-CP-G4	BA-S-PL-G3	BX-M-PL-G3	BX-XS-PL-G3
BackLED®										

12V Signage System

	Product Short Text	EAN 10 Code	Vout	Vout	66/68	66	66	66	66	64	66	66	66/68	66/68	66/68
Non-Dim	OT FIT 60/12 P	4062172133487				●				●		●		●	
	OT FIT 60/12 P (India version)	4062172133784	12V	66/67		●	●	●	●	●	●	●	●	●	●
	OT FIT 150/12 P	4062172133500				●				●		●		●	
	OT FIT 150/12 P (India version)	4062172133524	12V	66/67		●	●	●	●	●	●	●	●	●	
	OT FIT 300/12 P	4062172133548				●				●		●		●	
	OT FIT 300/12 P (India version)	4062172133562	12V	66/67		●	●	●	●	●	●	●	●	●	
Dimmer	OTI DALI DIM 1-4CH	TBD	12V	20		●	●	●	●	●	●	●	●	●	
	OT DIM (0-10V)	4050300943459	12V	20		●	●	●	●	●	●	●	●	●	
	OT BLE DIM	4052899557833	12V	20		●	●	●	●	●	●	●	●	●	

OPTOTRONIC® 12V Non-DIM Constant Voltage Drivers



EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
			[V]	[W]	[V]	[mm]			[h]
4062172133487	OT FIT 60/220-240/12 P	Non-DIM	220-240	60	12	167x53x31.5	IP66&IP67	5 Year	50 k
4062172133500	OT FIT 150/220-240/12 P	Non-DIM	220-240	150	12	202x53x31.5	IP66&IP67	5 Year	50 k
4062172133548	OT FIT 300/220-240/12 P	Non-DIM	220-240	300	12	266x83x39.5	IP66&IP67	5 Year	50 k
4062172133784	OT FIT 60/220-240/12 P (For India)	Non-DIM	220-240	60	12	163x72x43.5	IP67	5 Year	50 k
4062172133524	OT FIT 150/220-240/12 P (For India)	Non-DIM	220-240	150	12	202x53x31.5	IP66&IP67	5 Year	50 k
4062172133562	OT FIT 300/220-240/12 P (For India)	Non-DIM	220-240	300	12	266x83x39.5	IP66&IP67	5 Year	50 k

Product features

- High IP rank. Salt mist and UV resistant
- Surge protection up to 6kV/6kV and 6kV/10kV(India version)
- Up to 440Vac input voltage protection (India version)
- THD<5%, PF>0.95

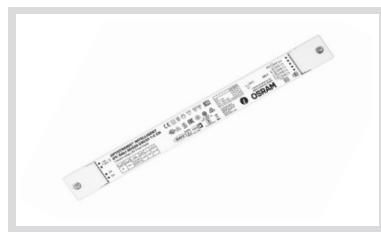
Product benefits

- Long lasting and high reliability
- Rugged and robust design for ture outdoor application
- Power range from 60~300W for different application

Applications

Outdoor signage light boxes, wall washer, architectural lighting.

OPTOTRONIC® Intelligent 24V DALI Constant Voltage Drivers



EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
4052899452916	OTI DALI 50/220...240/24 1-4 CH	DALI 2.0	220 – 240	50	24	345 x 32 x 22	IP20	5 Year	50 k
4052899452893	OTI DALI 80/220...240/24 1-4 CH	DALI 2.0	220 – 240	80	24	345 x 32 x 22	IP20	5 Year	50 k
4052899986305	OTI DALI 160/220–240/24 1-2 CH	DALI 2.0	220 – 240	160	24	300 x 50 x 35	IP20	5 Year	50 k
4052899490772	OTI DALI 50/220–240/24 TW	DALI 2.0	220 – 240	50	24	345 x 32 x 22	IP20	5 Year	50 k
4052899490758	OTI DALI 80/220–240/24 TW	DALI 2.0	220 – 240	80	24	345 x 32 x 22	IP20	5 Year	50 k
4052899986312	OTI DALI 160/220–240/24 TW	DALI 2.0	220 – 240	160	24	300 x 50 x 35	IP20	5 Year	50 k
4062172119191	OTI DALI 100/220–240/24 1-4CH P	DALI 2.0	220 – 240	100	24	237 x 69 x 37	IP66&IP67	5 Year	50 k
4062172032087	OTI DALI 210/220–240/24 1-4 CH P	DALI 2.0	220 – 240	210	24	330 x 69 x 37	IP66&IP67	5 Year	50 k

Product features

- DALI2 Interface
- Very wide dimming level: 0.1%~100%
- From 1 to 4 channels to arbitrary distribute the power programmable drivers
- IP20-IP67

Product benefits

- Long lasting and high reliability
- Slim form factor for target application
- Very good dimming range and performance meet customer requirement
- Both indoor and outdoor solution available

Applications

Indoor/outdoor light boxes, cove lighting, wall washer, linear luminaires

OPTOTRONIC® 24V 1-10V Constant Voltage Drivers



EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
4052899545809	OT 20/220–240/24 DIM P	1-10V	220 – 240	20	24	178 x 43 x 25	IP66	5 Year	50 k
4052899545823	OT 40/220–240/24 DIM P	1-10V	220 – 240	40	24	208 x 43 x 26	IP66	5 Year	50 k
4052899545847	OT 60/220–240/24 DIM P	1-10V	220 – 240	60	24	208 x 43 x 26	IP66	5 Year	50 k
4052899545861	OT 100/220–240/24 DIM P	1-10V	220 – 240	106	24	240 x 50 x 34	IP67	5 Year	50 k
4052899545885	OT 130/220–240/24 DIM P	1-10V	220 – 240	140	24	220 x 63 x 37	IP67	5 Year	50 k
4052899545908	OT 250/220–240/24 DIM P	1-10V	220 – 240	250	24	265 x 68 x 39.5	IP67	5 Year	50 k

Product features

- High IP rank, Salt mist and UV resistant
- 1-10V dimming, dim to OFF

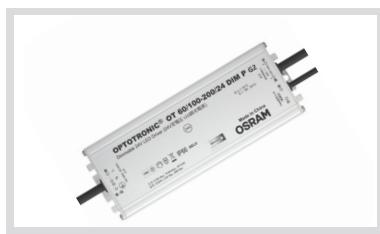
Product benefits

- Long lasting and high reliability
- Rugged and robust design for ture outdoor application
- Power range from 20~250W for different application

Applications

Outdoor signage light boxes, wall washer, architectural lighting

OPTOTRONIC® 24V PWM Constant Voltage Drivers



5 years
OSRAM
Guarantee

EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
			[V]	[W]	[V]	[mm]			[h]
4052899579637	OT 30/100-200/24 DIM P G2 (for Japan)	PWM DIM	100 – 200	30	24	195 x 51 x 33	IP66	5 Year	50 k
4052899529670	OT 60/100-200/24 DIM P G2 (for Japan)	PWM DIM	100 – 200	60	24	200 x 63 x 49	IP66	5 Year	50 k
4052899529694	OT 90/100-200/24 DIM P G2 (for Japan)	PWM DIM	100 – 200	90	24	219 x 63 x 49	IP66	5 Year	50 k
4052899529717	OT 150/100-200/24 DIM P G2 (for Japan)	PWM DIM	100 – 200	150	24	239 x 63 x 49	IP66	5 Year	50 k

Product features

- High IP rank, Salt mist and UV resistant
- PWM dimming interface
- 3Khz output dimming frequency
- 100-200V wide input voltage
- PSE certificated

Product benefits

- Long lasting and high reliability
- Good PWM dimming performance
- Power range from 30~150W for different application

Applications

In areas as hotels, luminous Signage, cruises ship, retail shops.
Public squares and architecture lighting.

OPTOTRONIC® and ELEMENT 24V Non-DIM Constant Voltage Drivers (Indoor)



ELEMENT
3 years
OSRAM
Guarantee

OT SLIM
5 years
OSRAM
Guarantee

EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
			[V]	[W]	[V]	[mm]			[h]
4052899605503	ELEMENT 30/220...240/24 G2	Non-DIM	220 – 240	30	24	145 x 40 x 26.5	IP20	3 Year	30 k
4052899605527	ELEMENT 60/220...240/24 G2	Non-DIM	220 – 240	60	24	200 x 40 x 31	IP20	3 Year	30 k
4052899605541	ELEMENT 120/22...240/24 G2	Non-DIM	220 – 240	120	24	260 x 40 x 31	IP20	3 Year	30 k
4052899605565	ELEMENT 180/220...240/24 G2	Non-DIM	220 – 240	180	24	300 x 40 x 31	IP20	3 Year	30 k
4062172135733	OT SLIM 30/220-240/24	Non-DIM	220 – 240	30	24	270 x 30 x 17.5	IP20	5 Year	50 k
4062172135856	OT SLIM 60/220-240/24	Non-DIM	220 – 240	60	24	338 x 30 x 17.5	IP20	5 Year	50 k
4062172135870	OT SLIM 100/220-240/24	Non-DIM	220 – 240	100	24	374 x 30 x 18.5	IP20	5 Year	50 k
4062172135894	OT SLIM 160/220-240/24	Non-DIM	220 – 240	160	24	404 x 30 x 21.5	IP20	5 Year	50 k
4062172135917	OT SLIM 250/220-240/24	Non-DIM	220 – 240	250	24	343 x 60 x 31.5	IP20	5 Year	50 k

Product features

- Linear housing and including cable clamp
- THD< 10%, High power factor >0.95
- Can connect to LED dimmer
- Very good system compatibility for LED module

Product benefits

- Simple and easy to use
- Flexible to drive different dimmer to become dimming solution
- Class II design for wide application

Applications

Indoor light boxes, cove lighting, wall washer, decorative lighting, linear luminaires

OPTOTRONIC® 24V Non-DIM Constant Voltage Drivers (Outdoor)



5 years
OSRAM
Guarantee

EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
4052899545922	OT 20/220–240/24 P	Non-DIM	220 – 240	20	24	178 x 43 x 25	IP66	5 Year	50 k
4052899545946	OT 40/220–240/24 P	Non-DIM	220 – 240	40	24	208 x 43 x 26	IP66	5 Year	50 k
4052899545960	OT 60/220–240/24 P	Non-DIM	220 – 240	60	24	208 x 43 x 26	IP66	5 Year	50 k
4052899545984	OT 100/220–240/24 P	Non-DIM	220 – 240	106	24	240 x 50 x 34	IP67	5 Year	50 k
4052899546004	OT 130/220–240/24 P	Non-DIM	220 – 240	140	24	220 x 63 x 37	IP67	5 Year	50 k
4052899546028	OT 250/220–240/24 P	Non-DIM	220 – 240	250	24	265 x 68 x 39.5	IP67	5 Year	50 k
4062172085465	OT FIT 80/220–240/24 P (New)	Non-DIM	220 – 240	80	24	170 x 53 x 31.5	IP66&IP67	5 Year	50 k
4062172085601	OT FIT 150/220–240/24 P(New)	Non-DIM	220 – 240	150	24	210 x 53 x 31.5	IP66&IP67	5 Year	50 k
4062172085649	OT FIT 200/220–240/24 P(New)	Non-DIM	220 – 240	200	24	240 x 53 x 31.5	IP66&IP67	5 Year	50 k
4062172085687	OT FIT 300/220–240/24 P(New)	Non-DIM	220 – 240	300	24	260 x 68 x 39	IP66&IP67	5 Year	50 k

Product features

- High IP rank, Salt mist and UV resistant.
- Surge protection up to 4kV/6kV
- Can connect to LED dimmer
- Very good system compatibility for LED module

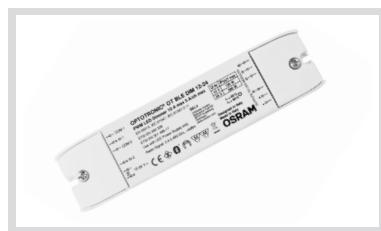
Product benefits

- Long lasting and high reliability
- Rugged and robust design for ture outdoor application
- Power range from 20–300W for different application

Applications

Outdoor signage light boxes, wall washer, architectural lighting

OPTOTRONIC® Intelligent 12-24V Constant Voltage Dimmer



EAN 10	Product Description	Dimming	Input Voltage	Output Power	Output Voltage	Dimensions	IP Rating	Warranty	Lifetime
4008321061195	OTI DALI DIM	DALI	12-24	60W@12V; 120W@24V	12-24	172 x 42 x 20	IP20	5 Year	50 k
4050300943459	OT DIM	0-10V	12-24	60W@12V; 120W@24V	12-24	172 x 42 x 20	IP20	5 Year	50 k
4052899557949	OT DMX RGBW DIM	DMX	12-24	171W@24V	12-24	172 x 42 x 20	IP20	5 Year	50 k
4052899557833	OT BLE DIM	Bluetooth	12-24	120W@12V; 240W@24V	12-24	172 x 42 x 20	IP20	5 Year	50 k

Product features

- DALI, 1-10V, DMX, bluetooth connectivity
- 12V-24V input and output
- PWM output dimming
- Very good dimming range 0-100%.

Product benefits

- Long lasting and high reliability
- Flexible to connect to different control system for CV lighting solution

Applications

Indoor light boxes, stretched ceiling, cove lighting, wall washer, decorative lighting

Lighting management systems upgrade your light emotion

Benefits in Application								
Human Centric Lighting Digital Ceiling					<ul style="list-style-type: none"> — Integrate Human Centric Lighting (HCL) into digital ceiling to provide human the optimal light for biological needs — Comprehensive Lighting Management Systems (LMS) for different project scales, from a single room to large facility 			
Advertising Box					<ul style="list-style-type: none"> — Time scheduling function to enhance energy saving — Brightness compensation based on day light to optimize visual experience through high contrast ratio — Reduce light pollution in urban area to be environmental friendly 			
100% Brightness								
50% Brightness								
System components								
		+		+		<ul style="list-style-type: none"> — BASIC — ADVANCED — PROFESSIONAL 		
BASIC			DALI MCU TW <ul style="list-style-type: none"> — Simple dimming and color change — No commissioning (plug & play) — Individual setting of Min brightness, Min. & Max. color temperature — DALI Broadcast interface for up to 25 DALI drivers — Up to 4 DALI MCU TW can be interconnected for multiple control points and/or to increase the DALI drivers to max.100 — Supports DALI DT6 and DT8 TW (Device type 8 tunable white) 					
	Product reference	Product code	Voltage	Type of mounting	Ingress protection	Dimensions (LxWxH)	Ambient Temperature range	
	DALI MCU TW	4052899465916	230V	Integrated into flush-device box	IP20	80x80x50mm	0...+50°C	
ADVANCED			DALIeco BT RTC / DALIeco BT / DALI ACU BT <ul style="list-style-type: none"> — Easy and intuitive control via app or standard pushbutton — Advanced automation possibilities via occupancy control and daylighting harvesting — Simplified commissioning thanks to predefined profiles — Wireless firmware update possible via Bluetooth — Time-based automatic Color temp. & Brightness change for human centric lighting (Only RTC version) 					
	Product reference	Product code	Voltage	Type of mounting	Ingress protection	Dimensions (LxWxH)	Ambient Temperature range	
	DALIeco BT RTC control	4062172016537 4062172016544	230V	Luminaire integration/Independent mounting	IP20	108x30x21mm	-20...+60°C	
	DALIeco BT control	4052899988781	230V	Luminaire/ceiling integration	IP20	108x30x21mm	-20...+60°C	
	DALI ACU BT	4052899544819	230V	Integration into flush-device box/ceiling	IP20	48x49x22mm	-20...+60°C	
PROFESSIONAL			DALI PROFESSIONAL <ul style="list-style-type: none"> — Easy and intuitive control via app or standard pushbutton — Advanced automation possibilities via occupancy control and daylighting harvesting — Fully customizable settings to support larger scale application of Max. 1024 LED DT6/DT8 drivers — Time-based automatic Color temp. & Brightness change for human centric lighting — Geographical based sunrise and sunset 					
	Product reference	Product code	Voltage	Type of mounting	Ingress protection	Dimensions (LxWxH)	Ambient Temperature range	
	DALI PRO Cont-4 RTC	4008321710871	100...240V	DIN rail mounting	IP20	90x160x62mm	0...+40°C	

OSRAM GmbH

Headquarters Germany
Phone: +49 896212-0
Email: contact@osram.com

OSRAM Pty Limited

Australia
Phone: +61 298910068

OSRAM Guangzhou Lighting Technology LTD

Guangzhou, China
Phone:+86 2036217723

OSRAM Asia Pacific Management Company Shenzhen Branch

Shenzhen, China
Phone:+86 75533225666

OSRAM Shanghai Rep. Office

Shanghai, China
Phone: +86 2153852848

OSRAM Asia Pacific Limited

Hong Kong
Phone: +852 29433488

OSRAM Lighting Pvt Ltd

India
Phone: +91 1246261300

PT OSRAM

Indonesia
Phone: +62 2138901191

OSRAM Ltd

Japan
Phone: +81 455486167

OSRAM Co Ltd

South Korea
Phone: +82 234903600

OSRAM (Malaysia) Sdn Bhd

Malaysia
Phone: +60 (3)79590000

OSRAM Lighting Pte Ltd

Singapore
Phone: +65 93375247

OSRAM Asia Pacific Ltd

Representative Office in Ho Chi Minh City
Vietnam
Phone: +84 989101644

OSRAM (Thailand) Co., Ltd.

Thailand
Phone:+662 7635768

OSRAM GmbH

Headquarters Germany:

Marcel-Breuer-Strasse 6
80807 Munich, Germany
Phone +49 89 6213-0
Fax +49 89 6213-2020
www.osram.asia



OSRAM