

## PrevaLED Core AC G2

Spot-, Down- and Wallmount Light Engines and Modules



### Areas of application

- Spot lighting in shops
- Down- and wall lighting in offices, corridors, meeting rooms, workplaces
- Decorative and functional lighting in the hospitality industry
- Accent lighting

### Product family benefits

- Connect directly to 220...240 V AC mains voltage for class 1 luminaires
- No external driver required
- Easy efficiency upgrade from generation 1 modules due to unchanged form factor
- Enables very high degree of freedom in luminaire design
- Allows very compact luminaire designs
- Less complexity in logistics as no external driver or special cables are required
- Enhanced safety thanks to protective cover glass and reversible thermal shutdown
- Easy to integrate due to compatibility with Zhaga book 3 heatsinks and reflectors
- Chip-On-Board technology with great homogeneity, no diffuser required
- 5 year guarantee



## Product family datasheet

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### Product family features

- LED light engine with integrated driver
- Light emitting surface, diameter, mounting holes positioning according to Zhaga Book 3
- Poke-in wire connection (no special connector required)
- Available with luminous flux: 800 lm, 2,000 lm
- System efficacy: up to 109 lm/W
- Color temperature: 2,700 K, 3,000 K or 4,000 K
- Color rendering index  $R_a$ : typ. 83
- Maximum housing temperature: 80 °C at  $t_c$  point
- Initial color consistency: < 3 SDCM
- Power factor: > 0.95
- LED module is reinforced isolated to mounting surface
- Photobiological safety according to IEC/TR 62778, risk group RG1

## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Input voltage range	Type of current
PL-CORE AC -800-827 <sup>1)</sup>	230 V	220...240 V	AC
PL-CORE AC -800-840 <sup>1)</sup>	230 V	220...240 V	AC

<sup>1)</sup> See product remark

#### Photometrical data

Product description	Luminous efficacy	Color rendering index Ra
PL-CORE AC -800-827 <sup>1)</sup>	90 lm/W	83
PL-CORE AC -800-840 <sup>1)</sup>	99 lm/W	83

<sup>1)</sup> See product remark

#### Light technical data

Product description	Starting time	Warm-up time (60 %)	Diameter of light emitting surface
PL-CORE AC -800-827 <sup>1)</sup>	0.3 s	0.30 s	14.0 mm
PL-CORE AC -800-840 <sup>1)</sup>	0.3 s	0.30 s	14.0 mm

<sup>1)</sup> See product remark

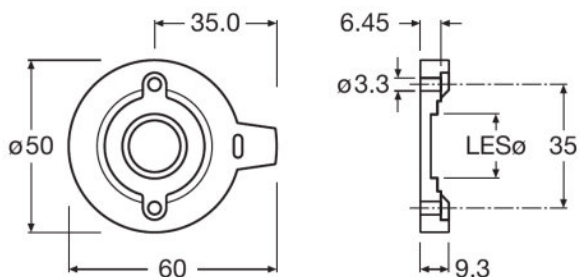
#### Dimensions & weight

Product description	Diameter	Product weight
PL-CORE AC -800-827 <sup>1)</sup>	50.0 mm	18.60 g
PL-CORE AC -800-840 <sup>1)</sup>	50.0 mm	18.60 g

<sup>1)</sup> See product remark

## Product family datasheet

### Product line drawing



PL-CORE AC -800-827, PL-CORE AC -800-840

### Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Maximum temperature at tc test point	Ambient temperature range	Temperature range at storage
PL-CORE AC -800-827 <sup>1)</sup>	65 °C	80 °C	-20...+50 °C	-20...85 °C
PL-CORE AC -800-840 <sup>1)</sup>	65 °C	80 °C	-20...+50 °C	-20...85 °C

<sup>1)</sup> See product remark

### Lifespan

Product description	Number of switching cycles
PL-CORE AC -800-827 <sup>1)</sup>	50000
PL-CORE AC -800-840 <sup>1)</sup>	50000

<sup>1)</sup> See product remark

## Product family datasheet

### Additional product data

Product description	Maximum thermal load
PL-CORE AC -800-827 <sup>1)</sup>	7.5 W
PL-CORE AC -800-840 <sup>1)</sup>	7.2 W

<sup>1)</sup> See product remark

### Certificates & standards

Product description	Standards
PL-CORE AC -800-827 <sup>1)</sup>	Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547/Acc. to EN 62471
PL-CORE AC -800-840 <sup>1)</sup>	Acc. to EN 62031/Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61547/Acc. to EN 62471

<sup>1)</sup> See product remark

### Logistical data

Product description	Commodity code
PL-CORE AC -800-827 <sup>1)</sup>	853951000000
PL-CORE AC -800-840 <sup>1)</sup>	853951000000

<sup>1)</sup> See product remark

### Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
PL-CORE AC -800-827 <sup>1)</sup>	23-12-2021	4052899952751	No declarable substances contained
PL-CORE AC -800-840 <sup>1)</sup>	23-12-2021	4052899996120	No declarable substances contained

Product description	CAS No. of substance 1	Declaration No. in SCIP database
PL-CORE AC -800-827 <sup>1)</sup>	No CAS	No declarable substances contained
PL-CORE AC -800-840 <sup>1)</sup>	No CAS	No declarable substances contained

<sup>1)</sup> See product remark

## Product family datasheet

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### Product remark

For current photometric data and important safety, installation and application information (see [www.osram.com/led-systems](http://www.osram.com/led-systems)),/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above 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/Tolerance for optical and electrical data: +/-10%

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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 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.
  - For safety reasons the LED light engine must not be operated if the housing is damaged.
  - The LED engine needs to be built into a luminaire.
  - Not released for dimming operation.
  - Suitable only for operation with line voltage.
  - Conducting paths on the circuit board must not be damaged or destroyed during installation.
  - Suitable for luminaires of protection class I, grounding is mandatory to comply with safety standards.
  - When used in a luminaire of protection class II compliance with the required safety standards has to be ensured by the luminaire manufacturer.
  - This LED module is not recommended to be used in rooms with fast moving parts as the light modulation can cause stroboscopic effects.
  - This LED module might interfere with displays and cameras due to modulation.
  - The LED module itself and all its components must not be stressed mechanically.
  - For optimal cooling a thermal interface material should be applied between LED module and heat sink.
  - It is highly recommended to use a thermal interface material (TIM). The TIM needs to enable adequate heat transfer, during installation it has to be taken care not to create air inclusions between surfaces. For this purpose it is recommended to use a heat sink with even and clean surfaces.
  - The LED module should be mounted to a heat sink with M3 screws or suitable accessories. Maximum tightening torque for mounting screws need to be observed as excessive force may damage the housing.
  - Protect against splashes!
  - The module, as manufactured, has no inherent protection against corrosion. It is the user's responsibility to provide suitable protection against corrosive agents, such as moisture, condensation and other harmful elements.
  - To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
  - Do not remove the cover or the safety glass from the LED module. Do not operate a LED module when the safety glass is broken, missing or cracked.
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### Sales and Technical Support

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

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## Product family datasheet

### Download Data

File	
	Certificates PrevaLED Core AC - VDE Certificate (ENDE)
	Certificates VDE Certificate PL-Core AC G2
	Declarations of conformity PL CORE AC G2 CE 3387536 030921

### Ecodesign regulation information:

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899952751	PL-CORE AC -800-827	Shipping carton box 50	370 mm x 380 mm x 88 mm	12.37 dm <sup>3</sup>	2178.00 g
4052899996120	PL-CORE AC -800-840	Shipping carton box 50	370 mm x 380 mm x 88 mm	12.37 dm <sup>3</sup>	2033.00 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](http://www.osram.com/system-guarantee)

### Disclaimer

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