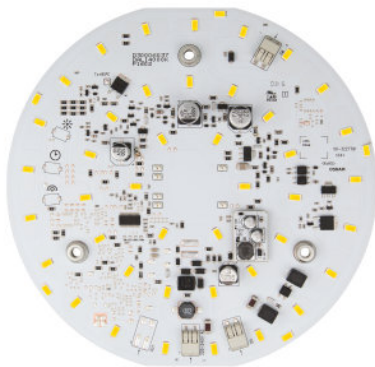


PrevaLED Flat AC DA

Spot-, Down- and Wallmount Light Engines and Modules



Product family features

- Dimming range (DALI): 1...100 %
- Dimensions of DALI version identical to on/off version
- Designed for wall and ceiling luminaires with diffuse light distribution
- Low-cost LED replacement of CFL wall-, and ceiling luminaires
- Driver integrated on LED board
- Available diameter: 170 mm, 240 mm, 335 mm, 415 mm
- Available with color temperature: 3,000 K or 4,000 K
- Available with luminous flux: 1,500 lm, 2,500 lm, 4,000 lm, 5,000 lm
- Lifetime (L70/B50): 50,000 h (temperature at $T_c = 80^\circ\text{C}$)
- LED module is reinforced isolated to mounting surface
- Photobiological safety according to IEC/TR 62778, risk group RG1

Product family benefits

- Touch protection accessory for simple use in luminaires
- High reliability
- Easy to use
- Optimised design for simple thermal management
- Enables thin and efficient luminaire designs
- High quality of light thanks to low modulation
- 5 year guarantee



Product family datasheet

Areas of application

- Corridors
- Stairways
- Landings
- Hallways
- Emergency lighting for single battery systems
- Luminaires for emergency lighting with central battery according to IEC 60598-2-22

Product family datasheet

Technical data

Product description	Electrical data					
	Nominal voltage	Input voltage range	Type of current	Output PSTLM	Inrush current	Mains frequency
PL-FLAT-AC-DA-G3 1500-830	230 V	220...240 V	AC	≤1	1,65 A ²⁾	0/50/60 Hz
PL-FLAT-AC-DA-G3 1500-840	230 V	220...240 V	AC	≤1	1,65 A ²⁾	0/50/60 Hz
PL-FLAT-AC-DA-G3 2500-830	230 V	220...240 V	AC	≤1	1,62 A ²⁾	0/50/60 Hz
PL-FLAT-AC-DA-G3 2500-840	230 V	220...240 V	AC	≤1	1,62 A ²⁾	0/50/60 Hz
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	230 V	220...240 V	AC	≤1	1,7 A ²⁾	0/50/60 Hz
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	230 V	220...240 V	AC	≤1	1,7 A ²⁾	0/50/60 Hz
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	230 V	220...240 V	AC	≤1	1,7 A ²⁾	0/50/60 Hz

Product description	Networked standby power	Input voltage DC	Displacement factor (cos φ1)	Energy consumption in on-mode	Input voltage AC
PL-FLAT-AC-DA-G3 1500-830	0.50 W	176...276 V	0.98	12.0 kWh/1000h	220...240 V
PL-FLAT-AC-DA-G3 1500-840	0.50 W	176...276 V	0.98	11.5 kWh/1000h	220...240 V
PL-FLAT-AC-DA-G3 2500-830	0.50 W	176...276 V	0.98	19.5 kWh/1000h	220...240 V
PL-FLAT-AC-DA-G3 2500-840	0.50 W	176...276 V	0.98	19.0 kWh/1000h	220...240 V
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	0.50 W	176...276 V	0.90	26.6 kWh/1000h	220...240 V
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	0.50 W	176...276 V	0.90	42.0 kWh/1000h	220...240 V
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	0.50 W	176...276 V	0.90	39.0 kWh/1000h	220...240 V

Product description	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 10 A (B)	On-mode power	Output SVM	Photometrical data
					Luminous efficacy
PL-FLAT-AC-DA-G3 1500-830	235	147	12.00 W	≤0.9	120 lm/W
PL-FLAT-AC-DA-G3 1500-840	245	153	11.50 W	≤0.9	126 lm/W
PL-FLAT-AC-DA-G3 2500-830	144	90	19.50 W	≤0.9	125 lm/W
PL-FLAT-AC-DA-G3 2500-840	148	93	19.00 W	≤0.9	128 lm/W
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	86	54	26.60 W	≤0.9	125 lm/W
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	68	42	42.00 W	≤0.9	127 lm/W
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	71	46	39.00 W	≤0.9	133 lm/W

Product family datasheet

					Light technical data
Product description	Color rendering index Ra	Correlated color temperature CCT	Colour consistency (McAdam ellipses)	Useful luminous flux (Φuse)	Starting time
PL-FLAT-AC-DA-G3 1500-830	80	3000 K	3	1450 lm	< 05 s
PL-FLAT-AC-DA-G3 1500-840	80	4000 K	3	1490 lm	< 05 s
PL-FLAT-AC-DA-G3 2500-830	80	3000 K	3	2450 lm	< 0.5 s
PL-FLAT-AC-DA-G3 2500-840	80	4000 K	3	2450 lm	< 0.5 s
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	80	3000 K	3	3300 lm	0.5 s
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	80	3000 K	3	5000 lm	0.5 s
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	80	4000 K	3	5000 lm	0.5 s

			Dimensions & weight		
Product description	Warm-up time (60 %)	Beam angle	Diameter	Product weight	Width
PL-FLAT-AC-DA-G3 1500-830	< 200 s	0 °	1700 mm	9200 g	165.0 mm
PL-FLAT-AC-DA-G3 1500-840	< 200 s	0 °	1700 mm	9200 g	165.0 mm
PL-FLAT-AC-DA-G3 2500-830	< 2.00 s	115 °	240.0 mm	168.00 g	235.0 mm
PL-FLAT-AC-DA-G3 2500-840	< 2.00 s	115 °	240.0 mm	168.00 g	235.0 mm
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	0.20 s		335.0 mm	300.00 g	335.0 mm
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	0.20 s		415.0 mm	415.00 g	415.0 mm
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	< 2.00 s		415.0 mm	415.00 g	415.0 mm

			Temperatures & operating conditions	
Product description	Length	Height	Performance temp. acc. to IEC 62717	Maximum temperature at tc test point
PL-FLAT-AC-DA-G3 1500-830	170.0 mm	14.6 mm	75 °C	90 °C
PL-FLAT-AC-DA-G3 1500-840	170.0 mm	14.6 mm	75 °C	90 °C
PL-FLAT-AC-DA-G3 2500-830	240.0 mm	14.6 mm	75 °C	90 °C
PL-FLAT-AC-DA-G3 2500-840	240.0 mm	14.6 mm	75 °C	90 °C
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	335.0 mm	15.0 mm	75 °C	95 °C
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	415.0 mm	14.6 mm	75 °C	95 °C
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	415.0 mm	14.6 mm	75 °C	95 °C

			Lifespan	
Product description	Ambient temperature range	Temperature range at storage	Number of switching cycles	L70B50 lifetime
PL-FLAT-AC-DA-G3 1500-830	-20...+50 °C	-20...85 °C	100000	50000 h
PL-FLAT-AC-DA-G3 1500-840	-20...+50 °C	-20...85 °C	100000	50000 h
PL-FLAT-AC-DA-G3 2500-830	-20...+50 °C	-20...85 °C	100000	50000 h
PL-FLAT-AC-DA-G3 2500-840	-20...+50 °C	-20...85 °C	100000	50000 h
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	-20...+50 °C	-20...85 °C	100000	50000 h
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	-20...+50 °C	-20...85 °C	100000	50000 h
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	-20...+50 °C	-20...85 °C	100000	50000 h

Product family datasheet

Product description	Lumen maintenance factor LMF	Additional product data		Capabilities
		Lighting technology used	Predecessor EAN	Dimming range
PL-FLAT-AC-DA-G3 1500-830	96	LED	4052899969698	1...100 %
PL-FLAT-AC-DA-G3 1500-840	96	LED	4052899969704	1...100 %
PL-FLAT-AC-DA-G3 2500-830	96	LED	4052899969711	1...100 %
PL-FLAT-AC-DA-G3 2500-840	96	LED	4052899969728	1...100 %
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	96	LED		1...100 %
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	96	LED		1...100 %
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	96	LED		1...100 %

Product description	Dimmable	Dimming interface	Programming	
			Tuner4TRONIC	Tuner4TRONIC Field App
PL-FLAT-AC-DA-G3 1500-830	Yes	DALI	Yes	No
PL-FLAT-AC-DA-G3 1500-840	Yes	DALI	Yes	No
PL-FLAT-AC-DA-G3 2500-830	Only with specific dimmers	DALI	Yes	No
PL-FLAT-AC-DA-G3 2500-840	Only with specific dimmers	DALI	Yes	No
PL-FLAT-AC-DA-G3 4000-830 ¹⁾		DALI	Yes	No
PL-FLAT-AC-DA-G3 5000-830 ¹⁾		DALI	Yes	No
PL-FLAT-AC-DA-G3 5000-840 ¹⁾		DALI	Yes	No

Product description	Programming device	Certificates & standards		Logistical data
		Standards	Energy efficiency class	Commodity code
PL-FLAT-AC-DA-G3 1500-830		CE/ENEC/VDE	E	85395100000
PL-FLAT-AC-DA-G3 1500-840		CE/ENEC/VDE	E	85395100000
PL-FLAT-AC-DA-G3 2500-830		CE/ENEC/VDE	E	85395100000
PL-FLAT-AC-DA-G3 2500-840		CE/ENEC/VDE	E	85395100000
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	DALI	CE	E	85395100000
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	DALI	CE	E	85395100000
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	DALI	CE	E	85395100000

Product description	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
PL-FLAT-AC-DA-G3 1500-830	21-07-2023	4062172209380	Lead	7439-92-1
PL-FLAT-AC-DA-G3 1500-840	21-07-2023	4062172209403	Lead	7439-92-1
PL-FLAT-AC-DA-G3 2500-830	21-07-2023	4062172203388	Lead	7439-92-1
PL-FLAT-AC-DA-G3 2500-840	21-07-2023	4062172203401	Lead	7439-92-1
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	21-07-2023	4052899605626	Lead	7439-92-1
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	21-07-2023	4052899605664 4062172344579	Lead	7439-92-1

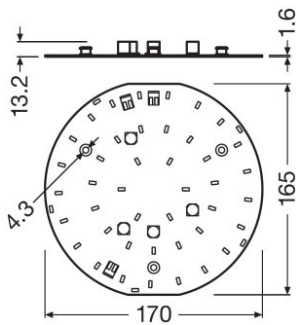
Product family datasheet

Product description	Environmental information			
	Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
	Date of Declaration	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	21-07-2023	4052899605688 4062172342117	Lead	7439-92-1

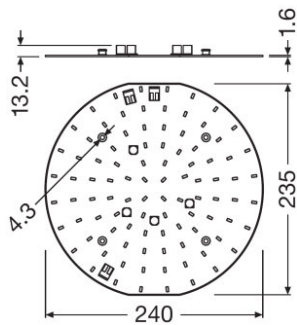
Product description	Safe Use Instruction	Declaration No. in SCIP database
PL-FLAT-AC-DA-G3 1500-830	The identification of the Candidate List substance is sufficient to allow safe use of the article.	f0456ec6-6de0-45e9-91a9-59adba951cbb
PL-FLAT-AC-DA-G3 1500-840	The identification of the Candidate List substance is sufficient to allow safe use of the article.	8a87b1b8-cc23-4886-9b1f-a25778fdee15
PL-FLAT-AC-DA-G3 2500-830	The identification of the Candidate List substance is sufficient to allow safe use of the article.	756ff8e3-a9ba-4c8c-9c79-bd9851b9500e
PL-FLAT-AC-DA-G3 2500-840	The identification of the Candidate List substance is sufficient to allow safe use of the article.	35094a43-e0fd-4564-b98c-8a45de1d049b
PL-FLAT-AC-DA-G3 4000-830 ¹⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	8cb13c6b-e133-4bae-80e2-a1293122d0bd
PL-FLAT-AC-DA-G3 5000-830 ¹⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	96cd6529-0bb4-4fa4-b328-5a9fe8d51eb0 be4356a9-af7a-4f07-ab9d-d201d55391cd
PL-FLAT-AC-DA-G3 5000-840 ¹⁾	The identification of the Candidate List substance is sufficient to allow safe use of the article.	ac5e2df2-a9ce-401a-861e-c8cae3a444df 4d94d972-d29d-4e7e-90ae-686467e9718b

¹⁾ For current photometric data and important safety, installation and application information (see 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%

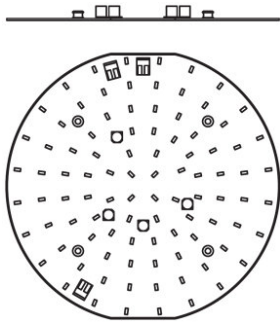
²⁾ At 10 µs



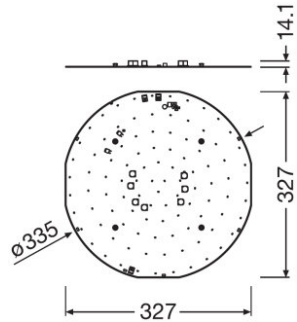
723983_Flat AC DALI G2



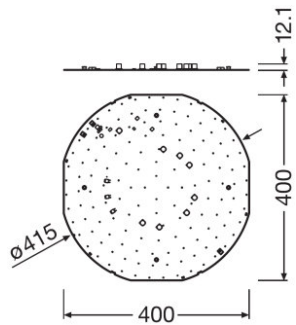
725795_PL-FLAT-AC-DA-G2 2500-230V



725799_PL-FLAT-AC-DA-G2 2500-230V



PL-FLAT-AC-DA-G3 4000-830 230V VS20 OSRAM



PL-FLAT-AC-DA-G3 5000-830 230V VS20 OSRAM

Product family datasheet

Application advice

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

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.
- Complies with IEC/EN 62031
- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2
- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 62717
- 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.
- 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.
- For optimal cooling a thermal interface material should be applied between LED module and heat sink.
- The module must not be attached to wood or other flammable materials.
- 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.
- For efficiency measurement, the product shall be set to a DALI dimming level of 100% by using Tuner4TRONIC. Refer to www.tuner4tronic.com.
- The product implemented control components are not designed for removal.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction PrevaLED Flat AC DA
	Certificates PL FLAT AC G3 VDE ENEC 40040688 250723
	Declarations of conformity PL FLAT AC G3 CE 3798398 070623
	User instruction PrevaLED Flat AC DA
	Declarations of conformity PL FLAT AC DA G3 4000 EAT 050221
	Declarations of conformity PL FLAT AC DA G3 4000 INO 050221

Product family datasheet

	CAD data PL FLAT AC DA 4000 G3 IGS 020720
	CAD data PL FLAT AC DA 4000 G3 STEP 020720
	CAD Data 2-dim PL FLAT AC DA 4000 G3 CAD2PDF 020720.
	CAD data 3-dim PL FLAT AC DA 4000 G3 CAD3PDF 020720
	Declarations of conformity PL FLAT AC DA G3 5000 EAT 050221
	Declarations of conformity PL FLAT AC DA G3 5000 INO 050221
	CAD data PL FLAT AC DA 5000 G3 IGS 020720
	CAD data PL FLAT AC DA 5000 G3 STEP 020720
	CAD Data 2-dim PL FLAT AC DA 5000 G3 CAD2PDF 020720
	CAD data 3-dim PL FLAT AC DA 5000 G3 CAD3PDF 020720

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
4062172209380	PL-FLAT-AC-DA-G3 1500-830	Shipping carton box 20	457 mm x 331 mm x 223 mm	33.73 dm ³	3360.00 g
4062172209403	PL-FLAT-AC-DA-G3 1500-840	Shipping carton box 20	457 mm x 331 mm x 223 mm	33.73 dm ³	3360.00 g
4062172203388	PL-FLAT-AC-DA-G3 2500-830	Shipping carton box 20	597 mm x 331 mm x 296 mm	58.49 dm ³	5148.00 g
4062172203401	PL-FLAT-AC-DA-G3 2500-840	Shipping carton box 20	597 mm x 331 mm x 296 mm	58.49 dm ³	5148.00 g
4052899605626	PL-FLAT-AC-DA-G3 4000-830	Shipping carton box 20	788 mm x 332 mm x 398 mm	104.12 dm ³	7000.00 g

Product family datasheet

Logistical Data

4062172344579	PL-FLAT-AC-DA-G3 5000-830	Shipping carton box 20	505 mm x 452 mm x 458 mm	104.54 dm ³	9750.00 g
4062172342117	PL-FLAT-AC-DA-G3 5000-840	Shipping carton box 20	505 mm x 452 mm x 458 mm	104.54 dm ³	9750.00 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
PL-FLAT-AC-DA-G3 1500-830	PL-FLTP 170 G2	▶ 4052899969872
PL-FLAT-AC-DA-G3 1500-840	PL-FLTP 170 G2	▶ 4052899969872
PL-FLAT-AC-DA-G3 2500-830	PL-FLTP 240 G2	▶ 4052899969889
PL-FLAT-AC-DA-G3 2500-840	PL-FLTP 240 G2	▶ 4052899969889
PL-FLAT-AC-DA-G3 4000-830	PL-FLTP 415 G2	▶ 4052899968479
PL-FLAT-AC-DA-G3 4000-830	PL-FLTP 335 G2	▶ 4052899530102
PL-FLAT-AC-DA-G3 5000-830	PL-FLTP 415 G2	▶ 4052899968479
PL-FLAT-AC-DA-G3 5000-840	PL-FLTP 415 G2	▶ 4052899968479

References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit <https://www.inventronics-light.com/multilevel-guarantees>

Disclaimer

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