

## ELEMENT LD

Compact constant current LED driver – Non dimmable



### Product family features

- Available with wattages up to 60 W
- Constant output current
- Integrated cable clamp for luminaire and independent installation
- Operated with Safety extra-low voltage (SELV): < 60 V
- Reversible overtemperature, overload, short-circuit and open-circuit protection

### Product family benefits

- Compatible with LEDs with Chip-On-Board technology and discrete LEDs
- High efficiency
- Simple installation and wiring

### Areas of application

- Spotlight and downlight installations for shops
- Recessed luminaires
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

# Product family datasheet

## Technical data

Product description	Electrical data					
	Nominal input voltage	Mains frequency	Input voltage AC	Total harmonic distortion	Power factor $\lambda$	Efficiency in full-load
Element LD 60/220...240/1A4	220...240 V	50/60 Hz	220...240 V <sup>1)</sup>	< 10 %	0.98 <sup>2)</sup>	> 90 % <sup>3)</sup>

Product description	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)
Element LD 60/220...240/1A4	8.8 W <sup>4)</sup>	< 16 A <sup>5)</sup>	13	20	-	1 kV

Product description	Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current tolerance
Element LD 60/220...240/1A4	1 kV	21...42 V <sup>6)</sup>	60 V	1400 mA	±10 %

Product description	Output ripple current (100 Hz)	Output PSTLM	Output SVM	Nominal output power
Element LD 60/220...240/1A4	15 % <sup>7)</sup>	≤1	≤0.4	60 W

Product description	Maximum output power	Galvanic isolation	Galvanic isolation primary/secondary	Current set	Dimensions & weight
					Mounting hole spacing, length
Element LD 60/220...240/1A4	60 W	SELV	SELV	Fixed current	99.0 mm

Product description	Mounting hole spacing, width	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
Element LD 60/220...240/1A4	64.0 mm	185.00 g	0.5...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	8.0...9.0 mm

Product description	Wire preparation length, output side	Width	Height	Length	Colors & materials
					Casing material
Element LD 60/220...240/1A4	8.0...9.0 mm	75.0 mm	29.5 mm	110.0 mm	Plastic

## Product family datasheet

Product description	Temperatures & operating conditions			
	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
Element LD 60/220...240/1A4	-10...+45 °C	85 °C	110 °C	-10...85 °C

Product description	Permitted rel. humidity during operation	Lifespan	Capabilities		
		ECG lifetime	Dimmable	Overheating protection	Overload protection
Element LD 60/220...240/1A4	5...85 % <sup>8)</sup>	30000 h <sup>9)</sup>	No	Automatic switch off, reversible by manual mains reset	Automatic switch off, reversible by manual mains reset

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
Element LD 60/220...240/1A4	Automatic reversible	Yes	No	2.0 m <sup>10)</sup>

Product description	Suitable for fixtures with prot. class	Type of connection, output side	Suitable for through-wiring	Certificates & standards
				Approval marks – approval
Element LD 60/220...240/1A4	I / II	Push terminal	No	CCC / CE / ENEC 10 / RCM

Product description	Standards	Protection class	Type of protection	Logistical data
				Commodity code
Element LD 60/220...240/1A4	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to CISPR 15/Acc. to IEC 61000-3-3/Acc. to IEC 61547	II	IP20	850440839000

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
Element LD 60/220...240/1A4	19-05-2023	4052899947139	Lead	7439-92-1

## Product family datasheet

Product description	Safe Use Instruction	Declaration No. in SCIP database
Element LD 60/220...240/1A4	The identification of the Candidate List substance is sufficient to allow safe use of the article.	92651546-abe2-43a3-b516-15166bf8b521

1)  $V_{AC}$

2) Full load at 230 V/50 Hz

3) at 230 V, 50 Hz

4) At 230 V

5)  $t_{width} = 50 \mu s$  (measured at 50 %  $I_{peak}$ )

6) DC voltage

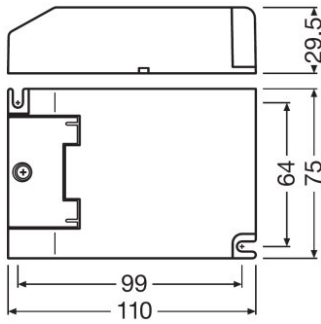
7) Ripple average at 100 Hz

8) Maximum 56 days/year at 85 %

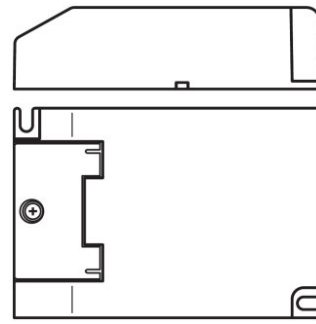
9) At  $T_{case} = 85^{\circ}C$  at  $T_c$  point / 10% failure rate

10) Output wires must be routed as close as possible to each other

## Product family datasheet



612033\_ELEMENT LD 60W 220-240 line drawing



612039\_ELEMENT LD 60W 220-240 line drawing





### Application advice

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

### Sales and Technical Support

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

### Download Data

File	
	User instruction ELEMENT Constant Current LED Driver
	Certificates LED drivers EMC 40011668 300922
	Certificates OT ENEC 40038447 130722
	Certificates 612430_ELEMENT CE declaration
	Certificates CCC Certificate 2018171002002203
	Declarations of conformity ELEMENT LD CE 3377285 150222
	CAD data 3-dim 642299_Element LD 60 STEP

## Product family datasheet

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### Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

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.

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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899947139	Element LD 60/220...240/1A4	Shipping carton box 20	387 mm x 229 mm x 80 mm	7.09 dm <sup>3</sup>	4071.00 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.

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### Disclaimer

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