

## ELEMENT S

Compact constant current LED driver – Non dimmable



### Product family features

- Available with wattages up to 44 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 44/220...240/1050 S	220...240 V	50...60 Hz	198...264 V	< 20 %	0.95	90 % <sup>1)</sup>

Product description	Device power loss	Protective conductor current	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 16 A (C)
ELEMENT 44/220...240/1050 S	5.7 W <sup>2)</sup>	<0.7 mA	< 11 A <sup>3)</sup>	18	-	-

Product description	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)	Nominal output voltage
ELEMENT 44/220...240/1050 S	29	-	2 kV	1 kV	30...42 V

Product description	U-OUT (working voltage)	Nominal output current	Output current tolerance	Output ripple current (100 Hz)	Output PSTLM
ELEMENT 44/220...240/1050 S	60 V	1050 mA	±7.5 %	< 30 %	≤1

Product description	Output SVM	Nominal output power	Maximum output power	Galvanic isolation
ELEMENT 44/220...240/1050 S	≤0.8	28.3...42 W	42 W	SELV

Product description	Galvanic isolation primary/secondary	Current set	Dimensions & weight		
			Mounting hole spacing, length	Mounting hole spacing, width	Product weight
ELEMENT 44/220...240/1050 S	SELV	Fixed current	88.0 mm	34.0 mm	88.00 g

Product description	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side	Wire preparation length, output side	Height
ELEMENT 44/220...240/1050 S	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>4)</sup>	0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>4)</sup>	7...8 mm	7...8 mm	29.0 mm

## Product family datasheet

Product description	Width	Length	Colors & materials	Temperatures & operating conditions	
			Casing material	Ambient temperature range	Maximum temperature at test point
ELEMENT 44/220...240/1050 S	43.0 mm	97.0 mm	Plastic	-20...+50 °C	85 °C <sup>5)</sup>

Product description	Max.housing temperature in case of fault	Temperature range at storage	Permitted rel. humidity during operation	Lifespan	Additional product data
				ECG lifetime	Predecessor EAN
ELEMENT 44/220...240/1050 S	110 °C	-40...+85 °C	5...95 % <sup>6)</sup>	30000 / 50000 h <sup>7)</sup>	405289 994712 2

Product description	Successor EAN	Capabilities		
		Dimmable	Overheating protection	Overload protection
ELEMENT 44/220...240/1050 S	4062172167611	No	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
ELEMENT 44/220...240/1050 S	Automatic reversible	Yes	No	2.0 m <sup>8)</sup>

Product description	Suitable for fixtures with prot. class	Type of connection, input side	Type of connection, output side	Suitable for through-wiring
ELEMENT 44/220...240/1050 S	I / II	Push terminal	Push terminal	No

Product description	Number of channels	Certificates & standards		
		Approval marks – approval	Standards	Type of protection
ELEMENT 44/220...240/1050 S	1	ENEC 05 / CCC / RCM / CE	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to IEC 61000-3-3	IP20

Product description	Protection class	Logistical data	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
		Commodity code	Date of Declaration	Primary Article Identifier
ELEMENT 44/220...240/1050 S	II	850440839000	21-09-2022	4052899553057

## Product family datasheet

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
ELEMENT 44/220...240/1050 S	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e10a781e-3beb-4dc3-b862-bfa2242dfdc0

1) at 230 V, 50 Hz

2) At 230 V, Input power 46.6 W max.

3)  $t_{\text{width}} = 153 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

4) Solid or flexible leads

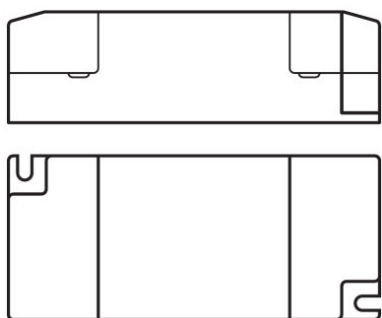
5) Measured on tc point indicated on the product label.

6) Non-condensing

7) At maximum  $T_c = 85^\circ\text{C}$  / 10% failure rate

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

## Product family datasheet



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 LED Power Supply
	Declarations of conformity ELEMENT S UK DoC 4281075 230322
	Declarations of conformity ELEMENT S CE 3754517 230322
	CAD data Element S 33_44 IGS 120220
	CAD data Element S 33_44 STEP 120220
	CAD data 3-dim Element S 33_44 CAD3PDF 120220

## 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
4052899553057	ELEMENT 44/220...240/1050 S	Shipping carton box 50	232 mm x 212 mm x 190 mm	9.34 dm <sup>3</sup>	4685.00 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.