

## ELEMENT G2 12V

Constant Voltage – Non dimmable



### Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

### Product family benefits

- High efficiency (up to 91 %)
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

### Product family features

- Linear form factor
- Power factor: >0.95 at full load
- Total Harmonic Distortion (THD): < 15%
- Output voltage tolerance: < 3%
- Up to 30,000 h @  $T_c$  max / up to 50,000 h @  $T_c$  -10 °C
- Lifetime: up to 30,000 h (temperature at max.  $t_c$ )



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## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Power factor $\lambda$	Efficiency in full-load
ELEMENT 30/220-240/12 G2	220...240 V	50...60 Hz	198...264 V	> 0.95	86 % <sup>1)</sup>
ELEMENT 60/220-240/12 G2	220...240 V	50...60 Hz	198...264 V	> 0.95	88 % <sup>1)</sup>
ELEMENT 120/220-240/12 G2	220...240 V	50...60 Hz	198...264 V	> 0.95	89 % <sup>1)</sup>
ELEMENT 180/220-240/12 G2	220...240 V	50...60 Hz	198...264 V	> 0.95	91 % <sup>1)</sup>

Product description	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)
ELEMENT 30/220-240/12 G2	4.9 W <sup>2)</sup>	<13.2 A <sup>3)</sup>	46	29	47	73
ELEMENT 60/220-240/12 G2	8.2 W <sup>2)</sup>	<20.1 A <sup>4)</sup>	23	15	23	26
ELEMENT 120/220-240/12 G2	14.8 W <sup>2)</sup>	< 50 A <sup>5)</sup>	8	5	8	12
ELEMENT 180/220-240/12 G2	17.8 W <sup>2)</sup>	< 70 A <sup>6)</sup>	5	3	6	8

Product description	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L-N)	Nominal output voltage	Nominal output power	Maximum output power
ELEMENT 30/220-240/12 G2	74	1 kV	12.5 V	30 W	30 W
ELEMENT 60/220-240/12 G2	26	1 kV	12.5 V	60 W	60 W
ELEMENT 120/220-240/12 G2	13	1 kV	12.5 V	120 W	120 W
ELEMENT 180/220-240/12 G2	9	1 kV	12.5 V	180 W	180 W

<sup>1)</sup> at 230 V, 50 Hz

<sup>2)</sup> At Full load, 230 V, 50 Hz

<sup>3)</sup> Max, th = 200 $\mu$ s

<sup>4)</sup> Max, th = 230  $\mu$ s

<sup>5)</sup> Max, th = 300  $\mu$ s

<sup>6)</sup> Max, th = 240 $\mu$ s

#### Dimensions & weight

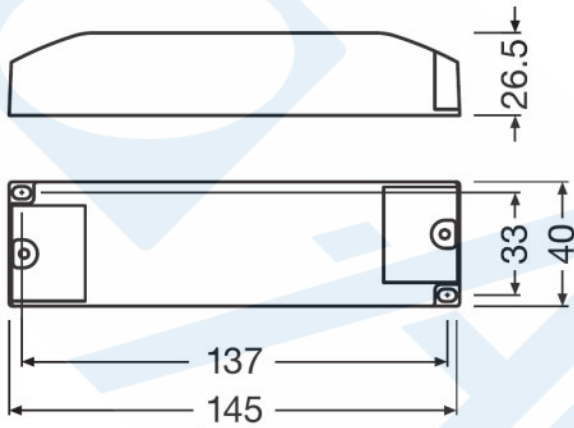
Product description	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side	Length
ELEMENT 30/220-240/12 G2	100.00 g	0.75...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	5.0 mm	145.0 mm
ELEMENT 60/220-240/12 G2	308.00 g	0.75...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	5.0 mm	200.0 mm
ELEMENT 120/220-240/12 G2	400.00 g	0.75...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	5.0 mm	260.0 mm
ELEMENT 180/220-240/12 G2	540.00 g	0.75...1.5 mm <sup>2</sup>	0.5...1.5 mm <sup>2</sup>	5.0 mm	300.0 mm

Product description	Width	Height
ELEMENT 30/220-240/12 G2	40.0 mm	26.5 mm
ELEMENT 60/220-240/12 G2	40.0 mm	31.0 mm

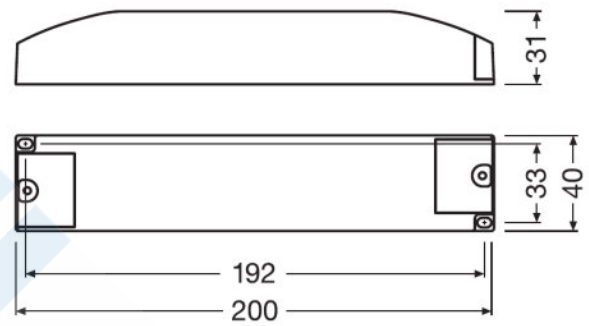
## Product family datasheet

Product description	Width	Height
ELEMENT 120/220-240/12 G2	40.0 mm	31.0 mm
ELEMENT 180/220-240/12 G2	40.0 mm	31.0 mm

### Product line drawing

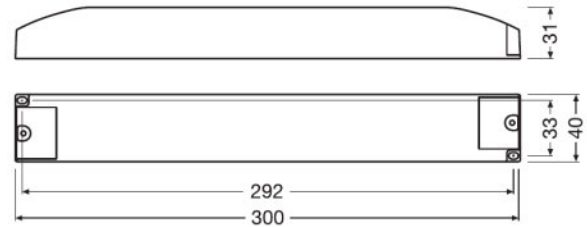


ELEMENT 30/220-240/12 G2



ELEMENT 60/220-240/12 G2

## Product family datasheet



ELEMENT 120/220-240/12 G2

ELEMENT 180/220-240/12 G2

### Colors & materials

Product description	Casing material
ELEMENT 30/220-240/12 G2	Plastic
ELEMENT 60/220-240/12 G2	Plastic
ELEMENT 120/220-240/12 G2	Plastic
ELEMENT 180/220-240/12 G2	Plastic

### Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
ELEMENT 30/220-240/12 G2	-20...+50 °C	75 °C	110 °C	-40...+85 °C
ELEMENT 60/220-240/12 G2	-20...+50 °C	85 °C	110 °C	-40...+85 °C
ELEMENT 120/220-240/12 G2	-20...+50 °C	90 °C	110 °C	-40...+85 °C
ELEMENT 180/220-240/12 G2	-20...+50 °C	90 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
ELEMENT 30/220-240/12 G2	5...85 % <sup>1)</sup>
ELEMENT 60/220-240/12 G2	5...85 % <sup>1)</sup>
ELEMENT 120/220-240/12 G2	5...85 % <sup>1)</sup>
ELEMENT 180/220-240/12 G2	5...85 % <sup>1)</sup>

<sup>1)</sup> Maximum 56 days/year at 85 %

## Product family datasheet

### Lifespan

Product description	ECG lifetime
ELEMENT 30/220-240/12 G2	30000 h <sup>1)</sup>
ELEMENT 60/220-240/12 G2	30000 h <sup>2)</sup>
ELEMENT 120/220-240/12 G2	30000 h <sup>3)</sup>
ELEMENT 180/220-240/12 G2	30000 h <sup>4)</sup>

1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 65^\circ\text{C}$  / 10% failure rate

2) At maximum  $T_c = 85^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate

3) At maximum  $T_c = 90^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate, At  $T_c = 70^\circ\text{C}$  / 10% failure rate

4) At maximum  $T_c$  / 10% failure rate

### Capabilities

Product description	Dimmable	Short-circuit protection	Intended for no-load operation	Suitable for fixtures with prot. class
ELEMENT 30/220-240/12 G2	No	Yes	No	I / II
ELEMENT 60/220-240/12 G2	No	Yes	No	I / II
ELEMENT 120/220-240/12 G2	No	Yes	No	I / II
ELEMENT 180/220-240/12 G2	No	Yes	No	I / II

Product description	Number of channels
ELEMENT 30/220-240/12 G2	1
ELEMENT 60/220-240/12 G2	1
ELEMENT 120/220-240/12 G2	1
ELEMENT 180/220-240/12 G2	1

## Product family datasheet

### Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
ELEMENT 30/220-240/12 G2	BIS / CCC / CE / MM / RCM / UKCA	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2	IP20
ELEMENT 60/220-240/12 G2	BIS / CCC / CE / MM / RCM / UKCA	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2	IP20
ELEMENT 120/220-240/12 G2	BIS / CCC / CE / MM / RCM / UKCA	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2	IP20
ELEMENT 180/220-240/12 G2	BIS / CCC / CE / MM / RCM / UKCA	Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 55015/Acc. to EN 61547/Acc. to EN 60598-1/Acc. to EN 62384/Acc. to CISPR 15/Acc. to EN 61000-3-2/IEC 61000-3-2	IP20

### Logistical data

Product description	Commodity code
ELEMENT 30/220-240/12 G2	850440839000
ELEMENT 60/220-240/12 G2	850440839000
ELEMENT 120/220-240/12 G2	850440839000
ELEMENT 180/220-240/12 G2	850440839000

### 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
ELEMENT 30/220-240/12 G2	16-05-2023	4062172277846	Lead
ELEMENT 60/220-240/12 G2	16-05-2023	4062172277860	Lead
ELEMENT 120/220-240/12 G2	16-05-2023	4062172277884	Lead
ELEMENT 180/220-240/12 G2	16-05-2023	4062172277907	Lead

## Product family datasheet

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
ELEMENT 30/220-240/12 G2	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e2b90eda-fe30-4c3d-80b6-ea0098b06c18
ELEMENT 60/220-240/12 G2	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	bc9f50c8-073a-4a25-bcbf-a99b52f711fc
ELEMENT 120/220-240/12 G2	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	c4d3c985-889c-4c55-b90c-7df4628caa3d
ELEMENT 180/220-240/12 G2	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	68ad0e1b-a75c-4445-a485-2b5930bd725b

### 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 G2

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172277846	ELEMENT 30/220-240/12 G2	Shipping carton box 40	421 mm x 315 mm x 96 mm	12.73 dm <sup>3</sup>	4559.00 g
4062172277860	ELEMENT 60/220-240/12 G2	Shipping carton box 30	421 mm x 225 mm x 141 mm	13.36 dm <sup>3</sup>	9853.00 g
4062172277884	ELEMENT 120/220-240/12 G2	Shipping carton box 20	421 mm x 285 mm x 105 mm	12.60 dm <sup>3</sup>	8546.00 g

## Product family datasheet

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### Logistical Data

4062172277907	ELEMENT 180/220-240/12 G2	Shipping carton box 20	421 mm x 325 mm x 105 mm	14.37 dm <sup>3</sup>	11430.00 g
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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.



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