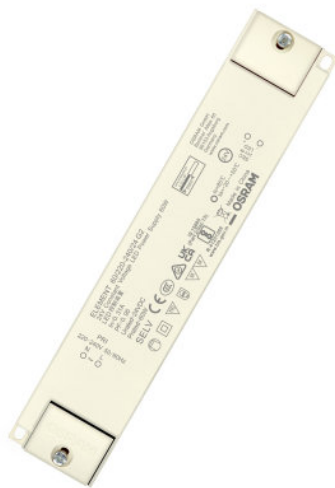


## ELEMENT G2 24V

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.  $t_c$ )

## Technical data

### Electrical data

| Product description       | Nominal input voltage | Mains frequency | Input voltage AC | Power factor $\lambda$ | Efficiency in full-load |
|---------------------------|-----------------------|-----------------|------------------|------------------------|-------------------------|
| ELEMENT 30/220-240/24 G2  | 220...240 V           | 50...60 Hz      | 198...264 V      | 0.95                   | 86 % <sup>1)</sup>      |
| ELEMENT 60/220-240/24 G2  | 220...240 V           | 50...60 Hz      | 198...264 V      | 0.95                   | 88 % <sup>1)</sup>      |
| ELEMENT 120/220-240/24 G2 | 220...240 V           | 50...60 Hz      | 198...264 V      | 0.95                   | 89 % <sup>1)</sup>      |
| ELEMENT 180/220-240/24 G2 | 220...240 V           | 50...60 Hz      | 198...264 V      | 0.90                   | 91 % <sup>1)</sup>      |

| Product description       | Device power loss    | 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) | Max. ECG no. on circuit breaker 16 A (B) |
|---------------------------|----------------------|----------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| ELEMENT 30/220-240/24 G2  | 4.9 W <sup>2)</sup>  | < 16 A <sup>3)</sup> | 13                                       | 23                                       | 38                                       | 23                                       |
| ELEMENT 60/220-240/24 G2  | 8.2 W <sup>2)</sup>  | < 25 A <sup>5)</sup> | 10                                       | 16                                       | 26                                       | 15                                       |
| ELEMENT 120/220-240/24 G2 | 14.8 W <sup>2)</sup> | < 32 A <sup>6)</sup> | 5                                        | 8                                        | 12                                       | 8                                        |
| ELEMENT 180/220-240/24 G2 | 17.8 W <sup>2)</sup> | < 40 A <sup>7)</sup> | 3                                        | 5                                        | 9                                        | 5                                        |

| 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 30/220-240/24 G2  | 35                                       | 1 kV                   | 24 V                   | 30 W                 | 30 W <sup>4)</sup>   |
| ELEMENT 60/220-240/24 G2  | 24                                       | 1 kV                   | 24 V                   | 60 W                 | 60 W <sup>4)</sup>   |
| ELEMENT 120/220-240/24 G2 | 12                                       | 1 kV                   | 24 V                   | 120 W                | 120 W <sup>4)</sup>  |
| ELEMENT 180/220-240/24 G2 | 8                                        | 1 kV                   | 24 V                   | 180 W                | 180 W <sup>4)</sup>  |

| Product description       | Galvanic isolation primary/secondary | Output ripple Voltage (100 Hz) |
|---------------------------|--------------------------------------|--------------------------------|
| ELEMENT 30/220-240/24 G2  | 3 kV                                 | < 3 %                          |
| ELEMENT 60/220-240/24 G2  | 3 kV                                 | < 3 %                          |
| ELEMENT 120/220-240/24 G2 | 3 kV                                 | < 3 %                          |
| ELEMENT 180/220-240/24 G2 | 3 kV                                 | < 3 %                          |

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

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

<sup>3)</sup> At 240  $\mu$ s

<sup>4)</sup> at steady state

<sup>5)</sup> At 340  $\mu$ s

<sup>6)</sup> At 520  $\mu$ s

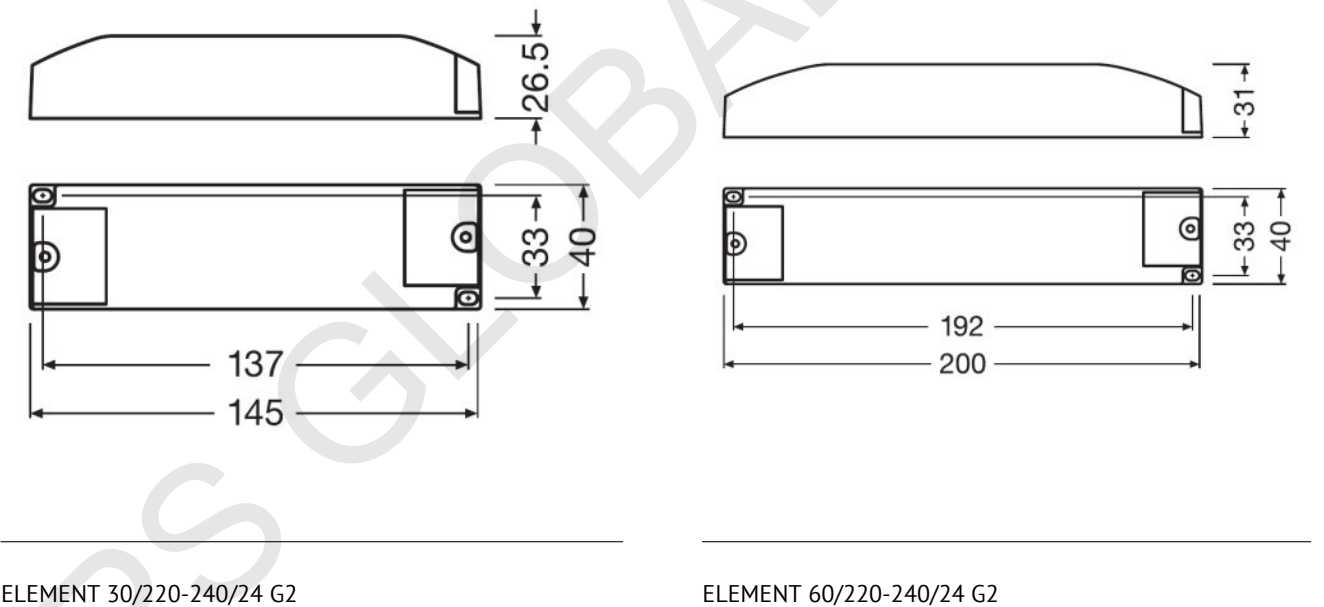
<sup>7)</sup> At 765  $\mu$ s

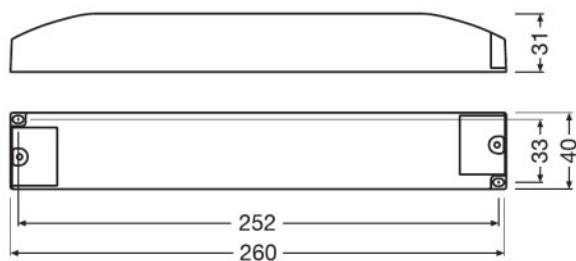
Dimensions & weight

| Product description       | Mounting hole spacing, length | Product weight | Cable cross-section, input side | Cable cross-section, output side | Wire preparation length, input side |
|---------------------------|-------------------------------|----------------|---------------------------------|----------------------------------|-------------------------------------|
| ELEMENT 30/220-240/24 G2  | 137 mm                        | 107.00 g       | 0.75...1.5 mm <sup>2</sup>      | 0.75...1.5 mm <sup>2</sup>       | 5.0 mm                              |
| ELEMENT 60/220-240/24 G2  | 192 mm                        | 296.00 g       | 0.75...1.5 mm <sup>2</sup>      | 0.75...1.5 mm <sup>2</sup>       | 5.0 mm                              |
| ELEMENT 120/220-240/24 G2 | 252 mm                        | 386.00 g       | 0.75...1.5 mm <sup>2</sup>      | 0.75...1.5 mm <sup>2</sup>       | 5.0 mm                              |
| ELEMENT 180/220-240/24 G2 | 292 mm                        | 472.00 g       | 0.75...1.5 mm <sup>2</sup>      | 0.75...1.5 mm <sup>2</sup>       | 5.0 mm                              |

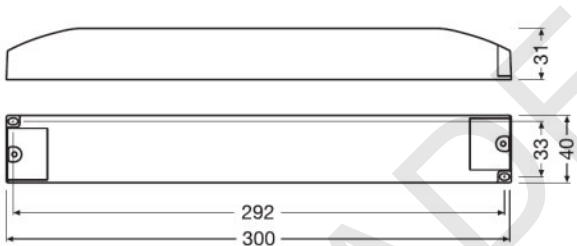
| Product description       | Height  | Width   | Length   |
|---------------------------|---------|---------|----------|
| ELEMENT 30/220-240/24 G2  | 26.5 mm | 40.0 mm | 145.0 mm |
| ELEMENT 60/220-240/24 G2  | 31.0 mm | 40.0 mm | 200.0 mm |
| ELEMENT 120/220-240/24 G2 | 31.0 mm | 40.0 mm | 260.0 mm |
| ELEMENT 180/220-240/24 G2 | 31.0 mm | 40.0 mm | 300.0 mm |

Product line drawing





ELEMENT 120/220-240/24 G2



ELEMENT 180/220-240/24 G2

Colors & materials

| Product description       | Casing material |
|---------------------------|-----------------|
| ELEMENT 30/220-240/24 G2  | Plastic         |
| ELEMENT 60/220-240/24 G2  | Plastic         |
| ELEMENT 120/220-240/24 G2 | Plastic         |
| ELEMENT 180/220-240/24 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 30/220-240/24 G2  | -20...+50 °C              | 75 °C                                | 110 °C                                   | -40...+85 °C                 |
| ELEMENT 60/220-240/24 G2  | -20...+50 °C              | 85 °C                                | 110 °C                                   | -40...+85 °C                 |
| ELEMENT 120/220-240/24 G2 | -20...+50 °C              | 90 °C                                | 110 °C                                   | -40...+85 °C                 |
| ELEMENT 180/220-240/24 G2 | -20...+50 °C              | 90 °C                                | 110 °C                                   | -40...+85 °C                 |

| Product description       | Permitted rel. humidity during operation |
|---------------------------|------------------------------------------|
| ELEMENT 30/220-240/24 G2  | 5...85 % <sup>1)</sup>                   |
| ELEMENT 60/220-240/24 G2  | 5...85 % <sup>1)</sup>                   |
| ELEMENT 120/220-240/24 G2 | 5...85 % <sup>1)</sup>                   |
| ELEMENT 180/220-240/24 G2 | 5...85 % <sup>1)</sup>                   |

<sup>1)</sup> Non-condensing

## Lifespan

| Product description       | ECG lifetime          |
|---------------------------|-----------------------|
| ELEMENT 30/220-240/24 G2  | 30000 h <sup>1)</sup> |
| ELEMENT 60/220-240/24 G2  | 30000 h <sup>1)</sup> |
| ELEMENT 120/220-240/24 G2 | 30000 h <sup>1)</sup> |
| ELEMENT 180/220-240/24 G2 | 30000 h <sup>1)</sup> |

<sup>1)</sup> At maximum T<sub>c</sub> / 10% failure rate

## Additional product data

| Product description       | Predecessor EAN                 |
|---------------------------|---------------------------------|
| ELEMENT 30/220-240/24 G2  | 4052899463776,<br>4052899528666 |
| ELEMENT 60/220-240/24 G2  | 4052899528680,<br>4052899463790 |
| ELEMENT 120/220-240/24 G2 | 4052899528703,<br>4052899463813 |
| ELEMENT 180/220-240/24 G2 |                                 |

## Capabilities

| Product description       | Dimmable | Overheating protection | Overload protection |
|---------------------------|----------|------------------------|---------------------|
| ELEMENT 30/220-240/24 G2  | No       | Yes                    | Yes                 |
| ELEMENT 60/220-240/24 G2  | No       | Yes                    | Yes                 |
| ELEMENT 120/220-240/24 G2 | No       | Yes                    | Yes                 |
| ELEMENT 180/220-240/24 G2 | No       | Yes                    | Yes                 |

| Product description       | Short-circuit protection | Intended for no-load operation | Suitable for fixtures with prot. class |
|---------------------------|--------------------------|--------------------------------|----------------------------------------|
| ELEMENT 30/220-240/24 G2  | Yes                      | No                             | I / II                                 |
| ELEMENT 60/220-240/24 G2  | Yes                      | No                             | I / II                                 |
| ELEMENT 120/220-240/24 G2 | Yes                      | No                             | I / II                                 |
| ELEMENT 180/220-240/24 G2 | Yes                      | No                             | I / II                                 |

| Product description       | Number of channels |
|---------------------------|--------------------|
| ELEMENT 30/220-240/24 G2  | 1                  |
| ELEMENT 60/220-240/24 G2  | 1                  |
| ELEMENT 120/220-240/24 G2 | 1                  |
| ELEMENT 180/220-240/24 G2 | 1                  |

## Certificates &amp; standards

| Product description       | Approval marks – approval | Standards                                                                                                                                   | Type of protection |
|---------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| ELEMENT 30/220-240/24 G2  | CE / RCM / CCC / MM       | 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 | IP20               |
| ELEMENT 60/220-240/24 G2  | CE / RCM / CCC / MM       | 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 | IP20               |
| ELEMENT 120/220-240/24 G2 | CE / RCM / CCC / MM       | 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 | IP20               |
| ELEMENT 180/220-240/24 G2 | CE / RCM / CCC            | 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 | IP20               |

## Logistical data

| Product description       | Commodity code |
|---------------------------|----------------|
| ELEMENT 30/220-240/24 G2  | 85044083900    |
| ELEMENT 60/220-240/24 G2  | 85044083900    |
| ELEMENT 120/220-240/24 G2 | 85044083900    |
| ELEMENT 180/220-240/24 G2 | 85044083900    |

## 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 30/220-240/24 G2  | 19-05-2023          | 4052899605503              | Lead                       |
| ELEMENT 60/220-240/24 G2  | 09-06-2023          | 4052899605527              | Lead                       |
| ELEMENT 120/220-240/24 G2 | 07-07-2023          | 4052899605541              | Lead                       |
| ELEMENT 180/220-240/24 G2 | 26-05-2023          | 4052899605565              | Lead                       |

## Product family datasheet

| Product description       | CAS No. of substance 1 | Safe Use Instruction                                                                               | Declaration No. in SCIP database     |
|---------------------------|------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------|
| ELEMENT 30/220-240/24 G2  | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 47a42d1c-7820-45ab-8165-ed264580da37 |
| ELEMENT 60/220-240/24 G2  | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | 321575b0-82b4-49f8-a1a2-0814d43a1d97 |
| ELEMENT 120/220-240/24 G2 | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | d6ceed4c-b2a2-4661-b959-9a9b84a0bd66 |
| ELEMENT 180/220-240/24 G2 | 7439-92-1              | The identification of the Candidate List substance is sufficient to allow safe use of the article. | bfc76c58-70fe-4768-b246-2839b7d9e889 |

### Application advice

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

### Additional product information

- EMI pass verified with wire length of 3 m, from the ECG to the LED module at full load.
- Wiring longer than 3 m from ECG to LED module is possible, but site installation conditions may interfere with EMI with these longer cables. EMI is therefore not verified in this condition.
- For wires longer than 3 m, the appropriate cable cross section must be carefully selected to reduce voltage drop.

### Sales and Technical Support

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

### Country specific information

### Download Data

| File                                                                                |                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|
|  | User instruction<br>ELEMENT G2 Constant Voltage Power Supply |
|  | Product Datasheet<br>ELEMENT 30 G2 Technical Datasheet (EN)  |

Product family datasheet

|                                                                                     |                                                                   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|    | Declarations of conformity<br>ELEMENT 24V G2 CE 3776665 04 061022 |
|    | CAD data<br>ELEMENT 30 24V G2 STEP 041219                         |
|    | CAD data<br>ELEMENT 30 24V G2 IGS 041219                          |
|    | Product Datasheet<br>ELEMENT 60 G2 Technical Datasheet (EN)       |
|    | CAD data<br>ELEMENT 60 24V G2 STEP 041219                         |
|    | CAD data<br>ELEMENT 60 24V G2 IGS 041219                          |
|    | Product Datasheet<br>ELEMENT 120 G2 Technical Datasheet (EN)      |
|    | CAD data<br>ELEMENT 120 24V G2 STEP 041219                        |
|    | CAD data<br>ELEMENT 120 24V G2 IGS 041219                         |
|   | Product Datasheet<br>ELEMENT 180 G2 Technical Datasheet (EN)      |
|  | CAD data<br>ELEMENT 180 24V G2 STEP 041219                        |
|  | CAD data<br>ELEMENT 180 24V G2 IGS 041219                         |

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.

Logistical Data

| Product code  | Product description      | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|--------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899605503 | ELEMENT 30/220-240/24 G2 | Shipping carton box 40       | 421 mm x 315 mm x 96 mm              | 12.73 dm <sup>3</sup> | 4839.00 g    |

## Product family datasheet

### Logistical Data

|               |                           |                        |                          |                       |            |
|---------------|---------------------------|------------------------|--------------------------|-----------------------|------------|
| 4052899605527 | ELEMENT 60/220-240/24 G2  | Shipping carton box 30 | 421 mm x 225 mm x 141 mm | 13.36 dm <sup>3</sup> | 9493.00 g  |
| 4052899605541 | ELEMENT 120/220-240/24 G2 | Shipping carton box 20 | 421 mm x 285 mm x 105 mm | 12.60 dm <sup>3</sup> | 8266.00 g  |
| 4052899605565 | ELEMENT 180/220-240/24 G2 | Shipping carton box 20 | 421 mm x 325 mm x 105 mm | 14.37 dm <sup>3</sup> | 10070.00 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 [https://](https://www.inventronics-light.com/multilevel-guarantees)

▶ [www.inventronics-light.com/multilevel-guarantees](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.

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