

## ELEMENT 120/220-240/24 G2

ELEMENT G2 | Constant Voltage – Non dimmable



### 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.  $t_c$ )

### 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

### Areas of application

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

## Technical data

### Electrical data

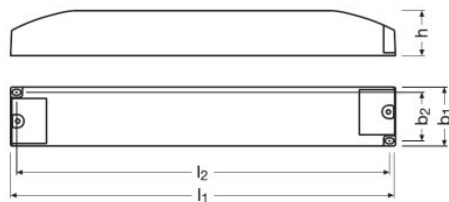
|                                          |                      |
|------------------------------------------|----------------------|
| Nominal input voltage                    | 220...240 V          |
| Mains frequency                          | 50...60 Hz           |
| Input voltage AC                         | 198...264 V          |
| Power factor $\lambda$                   | 0.95                 |
| Efficiency in full-load                  | 89 % <sup>1)</sup>   |
| Device power loss                        | 14.8 W <sup>2)</sup> |
| Inrush current                           | < 32 A <sup>3)</sup> |
| Max. ECG no. on circuit breaker 10 A (B) | 5                    |
| Max. ECG no. on circuit breaker 10 A (C) | 8                    |
| Max. ECG no. on circuit breaker 16 A (B) | 8                    |
| Max. ECG no. on circuit breaker 16 A (C) | 12                   |
| Max. ECG no. on circuit breaker 25 A (B) | 12                   |
| Surge capability (L-N)                   | 1 kV                 |
| Nominal output voltage                   | 24 V                 |
| Nominal output power                     | 120 W                |
| Maximum output power                     | 120 W                |
| Galvanic isolation primary/secondary     | 3 kV                 |
| Output ripple Voltage (100 Hz)           | < 3 %                |

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

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

<sup>3)</sup> At 520  $\mu$ s

### Dimensions & weight



|                                 |                            |
|---------------------------------|----------------------------|
| Mounting hole spacing, length   | 252 mm                     |
| Product weight                  | 386.00 g                   |
| Cable cross-section, input side | 0.75...1.5 mm <sup>2</sup> |

## Product datasheet

|                                     |                            |
|-------------------------------------|----------------------------|
| Cable cross-section, output side    | 0.75...1.5 mm <sup>2</sup> |
| Wire preparation length, input side | 5.0 mm                     |
| Length                              | 260.0 mm                   |
| Width                               | 40.0 mm                    |
| Height                              | 31.0 mm                    |

### Colors & materials

|                 |         |
|-----------------|---------|
| Casing material | Plastic |
|-----------------|---------|

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -20...+50 °C           |
| Maximum temperature at tc test point     | 90 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Temperature range at storage             | -40...+85 °C           |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

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

### Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 30000 h <sup>1)</sup> |
|--------------|-----------------------|

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

### Capabilities

|                                        |        |
|----------------------------------------|--------|
| Dimmable                               | No     |
| Overheating protection                 | Yes    |
| Overload protection                    | Yes    |
| Short-circuit protection               | Yes    |
| Intended for no-load operation         | No     |
| Suitable for fixtures with prot. class | I / II |
| Number of channels                     | 1      |

### Certificates & standards

|                           |                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / RCM / CCC / MM                                                                                                                         |
| Standards                 | 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 |
| Type of protection        | IP20                                                                                                                                        |

### Logistical data

|                |              |
|----------------|--------------|
| Commodity code | 850440829000 |
|----------------|--------------|

## 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.

### Download Data

| File                                                                               |                                                                        |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|   | User instruction<br>ELEMENT G2 Constant Voltage Power Supply           |
|   | Product Datasheet<br>ELEMENT 120 G2 Technical Datasheet (EN)           |
|   | Declarations of conformity<br>ELEMENT 24V G2 CE 3776665 EN 01 29102020 |
|   | CAD data<br>ELEMENT 120 24V G2 STEP 041219                             |
|  | CAD data<br>ELEMENT 120 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 |
|---------------|---------------------------|------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899605541 | ELEMENT 120/220-240/24 G2 | Shipping carton box<br>20    | 454 mm x 279 mm x 123 mm             | 15.58 dm <sup>3</sup> | 8470.00 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.

## Product datasheet

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### References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit

▶ [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

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### Disclaimer

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