

## ELEMENT 120/220-240/24 G2

ELEMENT G2 | 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.  $t_c$ )

# Product datasheet

## Technical data

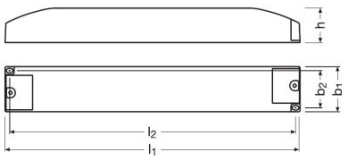
### Electrical data

|  |                      |
|--|----------------------|
| Nominal input voltage                    | 220...240 V          |
| Mains frequency                          | 50...60 Hz           |
| Input voltage AC                         | 198...264 V          |
| Power factor $\lambda$                   | 0.95                 |
| ECG efficiency                           | 89 %                 |
| Device power loss                        | 14.8 W <sup>1)</sup> |
| Inrush current                           | < 32 A <sup>2)</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                |
| Galvanic isolation primary/secondary     | 3 kV                 |
| Output ripple Voltage (100 Hz)           | < 3 %                |

<sup>1)</sup> At Full load, 230 V, 50 Hz

<sup>2)</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> |
| Cable cross-section, output side    | 0.75...1.5 mm <sup>2</sup> |
| Wire preparation length, input side | 5.0 mm                     |

## Product datasheet

|        |          |
|--------|----------|
| 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  $T_c$  / 10% failure rate

### Additional product data

|              |     |
|--------------|-----|
| Encapsulated | Yes |
|--------------|-----|

### Capabilities

|  |        |
|--|--------|
| Dimmable                               | No     |
| Overheating protection                 | Yes    |
| Overload protection                    | Yes    |
| Short-circuit protection               | Yes    |
| 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

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### Download Data

| File  |  |
|---|--|
|  | User instruction<br>ELEMENT G2 Constant Voltage Power Supply   |
|  | Declarations of conformity<br>ELEMENT 24V G2 CE 3427815 081119 |
|  | CAD data<br>ELEMENT 120 24V G2 STEP 041219                     |
|  | CAD data<br>ELEMENT 120 24V G2 IGS 041219                      |

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### 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    |

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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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### 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.

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