

ELEMENT 180/220-240/24 G2

ELEMENT G2 24V | 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 92%
- 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 |
| Input voltage DC | not relevant |
| Total harmonic distortion | < 15 % |
| Power factor λ | 0.90 |
| Efficiency in full-load | 91 % ¹⁾ |
| Device power loss | 17.8 W ²⁾ |
| Inrush current | < 40 A ³⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 3 |
| Max. ECG no. on circuit breaker 16 A (B) | 5 |
| Surge capability (L-N) | 1 kV |
| Nominal output voltage | 24 V |
| U-OUT (working voltage) | 25 V |
| Nominal output power | 180 W |
| Maximum output power | 180 W ⁴⁾ |
| Galvanic isolation | SELV |

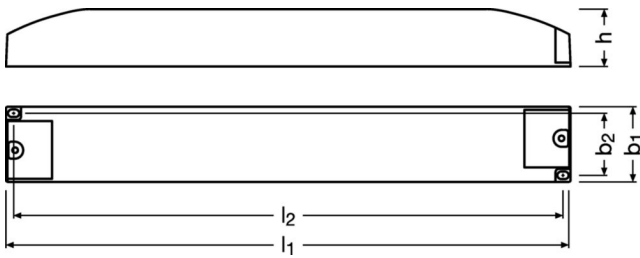
1) at 230 V, 50 Hz

2) At Full load, 230 V, 50 Hz

3) At 765 μ s

4) at steady state

Dimensions & weight



| | |
|---|----------------------------|
| Length | 300.0 mm |
| Width | 40.0 mm |
| Height | 31.0 mm |
| Mounting hole spacing, length | 292 mm |
| Cable cross-section, input side | 0.75...1.5 mm ² |
| Cable cross-section, output side | 0.75...1.5 mm ² |
| Wire preparation length, input side | 5.0 mm |
| Wire preparation length, output side | 5.0 mm |
| Product weight | 472.00 g |

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 % ¹⁾ |

1) Non-condensing

Lifespan

| | |
|---------------------|-----------------------|
| ECG lifetime | 30000 h ¹⁾ |
|---------------------|-----------------------|

1) At maximum T_c / 10% failure rate

Capabilities

| | |
|---|---------------------|
| Dimmable | No |
| Max. cable length to lamp/LED module | 3.0 m ¹⁾ |
| Suitable for fixtures with prot. class | I / II |
| Type of connection, input side | Terminal |
| Type of connection, output side | Terminal |
| Number of channels | 1 |
| Overheating protection | Yes |
| Overload protection | Yes |
| Short-circuit protection | Yes |
| Intended for no-load operation | No |

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

Certificates & standards

| | |
|---------------------------|---|
| Approval marks – approval | CE / RCM / CCC |
| 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 |
| Protection class | 2 |

Logistical data

| | |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
|---|---------------|
| Date of Declaration | 22-03-2024 |
| Primary Article Identifier | 4052899605565 |
| Declaration No. in SCIP database | In work |

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 | | |
|----------------------------|------------|---|
| CAD data | Compressed | ▶ELEMENT 180 24V G2 STEP 041219 |
| CAD data | Compressed | ▶ELEMENT 180 24V G2 IGS 041219 |
| Mandatory Publications | PDF | ▶ELEMENT G2 UK DoC 4307614 01 061022 |
| Declarations of conformity | PDF | ▶ELEMENT 24V G2 CE 3776665 07 080823 |
| User instruction | PDF | ▶ELEMENT G2 Constant Voltage Power Supply |

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 |
|---------------|---------------------------|----------------------------------|--------------------------------------|-----------------------|--------------|
| 4052899605565 | ELEMENT 180/220-240/24 G2 | Shipping carton box 20 Pieces | 421 x 325 x 105 mm | 14.37 dm ³ | 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

References / Links

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