

## ELEMENT 250/220-240/24 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

<b>Nominal input voltage</b>	220...240 V
<b>Mains frequency</b>	50...60 Hz
<b>Input voltage AC</b>	198...264 V
<b>Input voltage DC</b>	not relevant
<b>Total harmonic distortion</b>	< 15 %
<b>Power factor <math>\lambda</math></b>	> 0.95
<b>Efficiency in full-load</b>	92 % <sup>1)</sup>
<b>Device power loss</b>	21.7 W <sup>2)</sup>
<b>Inrush current</b>	< 70 A <sup>3)</sup>
<b>Max. ECG no. on circuit breaker 10 A (B)</b>	2
<b>Max. ECG no. on circuit breaker 16 A (B)</b>	3
<b>Surge capability (L/N-Ground)</b>	1 kV
<b>Surge capability (L-N)</b>	1 kV
<b>Nominal output voltage</b>	24 V
<b>Nominal output power</b>	250 W
<b>Maximum output power</b>	250 W <sup>4)</sup>
<b>Galvanic isolation</b>	SELV

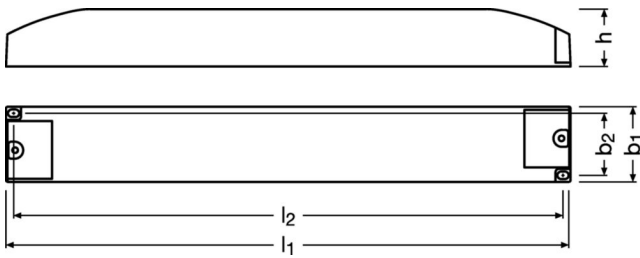
1) at 230 V, 50 Hz

2) At Full load, 230 V, 50 Hz

3) At 250  $\mu$ s

4) at steady state

## Dimensions & weight



<b>Length</b>	375.0 mm
<b>Width</b>	50.0 mm
<b>Height</b>	35.0 mm
<b>Cable cross-section, input side</b>	0.75...1.5 mm <sup>2</sup>
<b>Cable cross-section, output side</b>	0.5...1.5 mm <sup>2</sup>
<b>Wire preparation length, input side</b>	5.0 mm
<b>Wire preparation length, output side</b>	5.0 mm
<b>Product weight</b>	848.00 g

## Colors & materials

<b>Casing material</b>	Plastic
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## Temperatures & operating conditions

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

1) Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	30000 h <sup>1)</sup>
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1) At maximum  $T_c$  / 10% failure rate

## Capabilities

<b>Dimmable</b>	No
<b>Type of connection, input side</b>	Terminal
<b>Type of connection, output side</b>	Terminal
<b>Overheating protection</b>	Yes
<b>Overload protection</b>	Yes
<b>Intended for no-load operation</b>	No

## Certificates & standards

Approval marks – approval	CE / RCM / CCC
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 61000-3-2 / CISPR 15 / IEC 61000-3-3 / IEC 61547
Type of protection	IP20

## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	31-03-2026
Primary Article Identifier	4062172333467   6937186161970
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

## 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.

## 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.

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## Download Data

File		
User instruction	PDF	▶ ELEMENT G2 Constant Voltage Power Supply

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6937186161970 INVENTRONICS	ELEMENT 250/220- 240/24 G2	Shipping carton box 10 Pieces	406 x 264 x 113 mm	12.11 dm <sup>3</sup>	902.30 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://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.