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

Nominal input voltage	220…240 V
Mains frequency	50…60 Hz
Input voltage AC	198…264 V
Power factor λ	> 095
Efficiency in full-load	92 % [1)]
Device power loss	21.7 W [2)]
Inrush current	< 70 A [3)]
Max. ECG no. on circuit breaker 10 A (B)	2
Max. ECG no. on circuit breaker 10 A (C)	3
Max. ECG no. on circuit breaker 16 A (B)	3
Max. ECG no. on circuit breaker 16 A (C)	5
Max. ECG no. on circuit breaker 25 A (B)	5
Surge capability (L-N)	1 kV
Nominal output voltage	24 V
Nominal output power	250 W
Maximum output power	250 W [4)]
Galvanic isolation primary/secondary	3 kV
Surge capability (L/N-Ground)	1 kV
Total harmonic distortion	< 15 %
Output ripple Voltage (100 Hz)	< 3 %

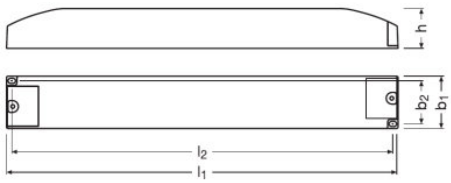
1) at 230 V, 50 Hz

2) At Full load, 230 V, 50 Hz

3) At 250 µs

4) at steady state

Dimensions & weight



Product weight	84800 g

Cable cross-section, input side	0.75…1.5 mm²
Cable cross-section, output side	0.5…1.5 mm²
Wire preparation length, input side	5.0 mm
Wire preparation length, output side	5.0 mm
Length	3750 mm
Width	500 mm
Height	350 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 % [1)]

[1)] Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h [1)]

[1)] At maximum T_c / 10% failure rate

Capabilities

Dimmable	No
Overheating protection	Yes
Overload protection	Yes
Intended for no-load operation	No
Type of connection, input side	Fixed connection (terminal)
Type of connection, output side	Fixed connection (terminal)

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

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	25-10-2023
Primary Article Identifier	4062172333467
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	764d4142-8018-4a89-90ef-0cd6a3e1cccc

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 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

Logistical Data

4062172333467	ELEMENT 250/220-240/24 G2	Shipping carton box 10	406 mm x 264 mm x 113 mm	12.11 dm^3	9023.00 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://

- 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.