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Technical datasheet

ELEMENT 8/220-240/200

ELEMENT G4 | Compact constant current LED driver – Non dimmable



Product family features

- Supply voltage: 220…240 V
- Fixed output (no dimming)
- Line frequency: 50 Hz | 60 Hz
- Line voltage: 198…264 V
- Lifetime: up to 50,000 h (temperature at Tc max. = -5 °C, max 10% failure rate)
- SELV

Product family benefits

- Versatile scope of application due to output power range of up to 42 W
- Safety ensured by Inventronics (SELV)
- Higher quality of light thanks to < 5% output ripple current
- High efficiency
- High compatibility with COBs and discrete LEDS

Specifications are subject to changes without notice.

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Areas of application

- Spot light and down light
- Panels
- Other Indoor LED luminaries
- Suitable for downlights, spotlights and LED panels
- Suitable for indoor SELV installations

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Electrical data

Nominal input voltage	220…240 V
Mains frequency	50/60 Hz
Input voltage AC	198…264 V
Nominal input current at 230 V	0.047 A
Total harmonic distortion	10 % [1)]
Power factor λ	0.90
Efficiency in full-load	82 % [2)]
Device power loss	1.84 W [3)]
Inrush current	8.5 A [4)]
Max. ECG no. on circuit breaker 10 A (B)	85
Max. ECG no. on circuit breaker 16 A (B)	136
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV [5)]
Protective conductor current	<0.7 mA
Nominal output voltage	24…42 V
U-OUT (working voltage)	60 V
Nominal output current	200 mA
Output current tolerance	±7.5 %
Output ripple current (100 Hz)	< 5 %
Output PSTLM	≤1
Output SVM	≤0.4
Nominal output power	4.8…8.4 W [6)]
Maximum output power	8.4 W
Galvanic isolation primary/secondary	SELV

1) At full load
2) at 230 V, 50 Hz
3) At 230 V, Input power 10.24 W max.
4) t_{width} = 7.2 µs typical (measured at 50 % I_{peak})
5) L/N – PE acc to EN 61547 Cluase 5.7
6) Partial load

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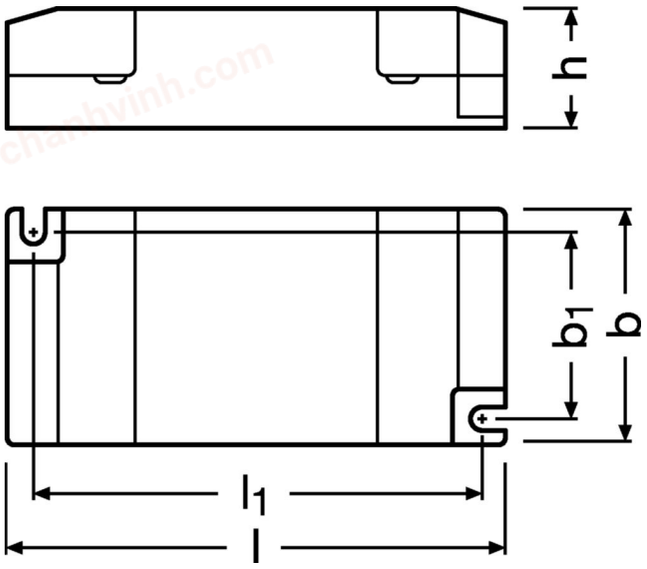
Dimensions & weight



Product weight	48.00 g
Length	90.0 mm
Width	43.0 mm
Height	22.0 mm
Mounting hole spacing, length	80.0 mm
Mounting hole spacing, width	34.0 mm
Cable cross-section, input side	0.5…1.5 mm² / 0.75…1.5 mm² [1)]
Cable cross-section, output side	0.5…1.5 mm² / 0.75…1.5 mm² [1)]
Wire preparation length, input side	7…8 mm
Wire preparation length, output side	7…8 mm
Cable/wire length, output side	2000 mm

1) Build in/ Independent

Colors & materials

Casing material	Plastic housing

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C
Maximum temperature at tc test point	75 °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

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Lifespan

ECG lifetime	30000 h / 50000 h [1)]

1) At maximum T_c = 75°C / 10% failure rate / At maximum T_c = 65°C / 10% failure rate

Additional product data

Encapsulated	No

Capabilities

Dimmable	No
Max. cable length to lamp/LED module	2.0 m [1)]
Suitable for fixtures with prot. class	I / II
Suitable for emergency lighting	No
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Suitable for through-wiring	No
Number of channels	1
Overheating protection	Electronic switch off
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

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

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Programming

Programming device	not relevant
Tuner4TRONIC	No
Tuner4TRONIC Field App	No

Certificates & standards

Approval marks – approval	CE / CCC / RCM / ENEC 25 / UKCA [1)]
Standards	IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 61000-3-2 / IEC 61547 / IEC 61000-3-3
Type of protection	IP20

1) In preparation

Logistical data

Commodity code	85044083900

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	29-05-2026
Primary Article Identifier	4062172355452 | 6977770430419
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

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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.

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Download Data

File		
User instruction	PDF	►UI ELEMENT G4

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Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
6977770430419 INVENTRONICS	ELEMENT 8/220-240/200	Shipping carton box 50 Pieces	321 x 194 x 138 mm	8.59 dm³	53.46 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

Disclaimer

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

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