

The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

## ELEMENT 6/220-240/150

ELEMENT G4 | Compact constant current LED driver – Non dimmable

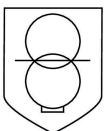


### Product family features

- 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



## 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

## Technical data

### 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	0.037 A
Total harmonic distortion	10 % <sup>1)</sup>
Power factor $\lambda$	0.90
Efficiency in full-load	80 % <sup>2)</sup>
Device power loss	1.58 W <sup>3)</sup>
Inrush current	8.8 A <sup>4)</sup>
Max. ECG no. on circuit breaker 10 A (B)	108
Max. ECG no. on circuit breaker 16 A (B)	172
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV <sup>5)</sup>
Protective conductor current	<0.7 mA
Nominal output voltage	24...42 V
U-OUT (working voltage)	60 V
Nominal output current	150 mA
Output current tolerance	$\pm 7.5$ %
Output ripple current (100 Hz)	< 5 %
Output PSTLM	$\leq 1$
Output SVM	$\leq 0.4$
Nominal output power	3.6...6.3 W <sup>6)</sup>
Maximum output power	6.3 W
Galvanic isolation primary/secondary	SELV

1) At full load

2) at 230 V, 50 Hz

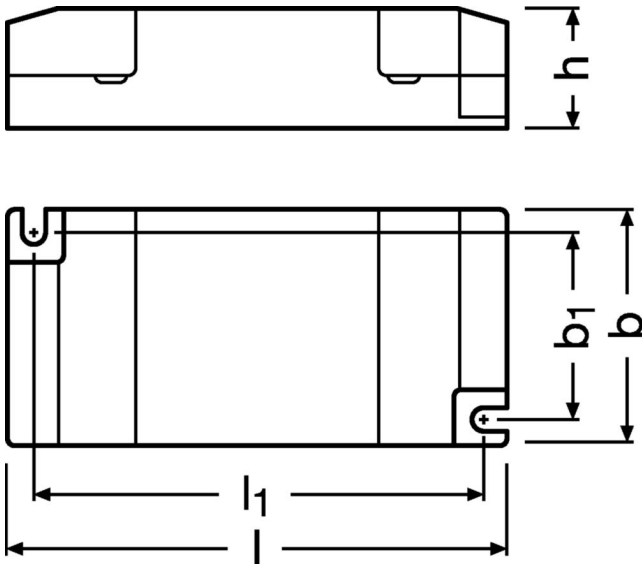
3) At 230 V, Input power 7.88 W max.

4)  $t_{\text{width}} = 6.9 \mu\text{s}$  typical (measured at 50 %  $I_{\text{peak}}$ )

5) L/N – PE acc to EN 61547 Cluase 5.7

6) Partial load

## 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 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
Cable cross-section, output side	0.5...1.5 mm <sup>2</sup> / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
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 % <sup>1)</sup>

1) Non-condensing

## Lifespan

<b>ECG lifetime</b>	30000 h / 50000 h <sup>1)</sup>
---------------------	---------------------------------

1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate / At maximum  $T_c = 65^\circ\text{C}$  / 10% failure rate

## Additional product data

<b>Encapsulated</b>	No
---------------------	----

## Capabilities

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

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

## Programming

Programming device	not relevant
Tuner4TRONIC	No
Tuner4TRONIC Field App	No

## Certificates & standards

Approval marks – approval	CE / CCC / RCM / ENEC 25 / UKCA <sup>1)</sup>
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	22-07-2025
Primary Article Identifier	4062172355438   6977770430396
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	ddb41e99-2471-4f1f-845a-3ad76bd9471f

## 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.

## Download Data

File		
Certificates	PDF	▶ ELEMENT G4 ENEC 64142225031702 U6 120723
Certificates	PDF	▶ ELEMENT G4 CCC 6 15W build in 2023171002004881
Mandatory Publications	PDF	▶ ELEMENT G4 CE 4460618 02 200125
Mandatory Publications	PDF	▶ ELEMENT G4 UK DoC 4460638 01 220923
User instruction	PDF	▶ UI ELEMENT G4

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172355438 OSRAM	ELEMENT 6/220- 240/150	Shipping carton box 50 Pieces	321 x 194 x 138 mm	8.59 dm <sup>3</sup>	53.46 g
6977770430396 INVENTRONICS	ELEMENT 6/220- 240/150	Shipping carton box 50 Pieces	321 x 194 x 138 mm	8.59 dm <sup>3</sup>	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.