## inventronics

## ELEMENT 25/220...240/600

## 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

According to EN 61347-1, 61347-2-13, 62384Line harmonics according to EN 61000-3-2

- Immunity according to EN 61547

- SELV

#### Product family benefits

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



# inventronics

### 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         220240 V           Mains frequency         50/60 Hz           Input voltage AC         198264 V           Current set         Fixed current           Total harmonic distortion         10 % ¹¹)           Power factor λ         0.95           Efficiency in full-load         87 % ²¹           Device power loss         3.59 W ³¹           Protective conductor current         <0.7 mA           Inrush current         18 A ⁴¹           Max. ECG no. on circuit breaker 10 A (B)         50           Max. ECG no. on circuit breaker 16 A (B)         81           Surge capability (L/N-Ground)         2 kV ⁵¹           Surge capability (L-N)         1 kV           Nominal output voltage         2140 V           U-OUT (working voltage)         60 V           Nominal output current         600 mA           Output current tolerance         ±7.5 %           Output PSTLM         ≤1           Output SVM         ≤0.4           Nominal output power         24 W           Galvanic isolation         SELV		
Input voltage AC         198264 V           Current set         Fixed current           Total harmonic distortion         10 % ¹)           Power factor λ         0.95           Efficiency in full-load         87 % ²)           Device power loss         3.59 W ³)           Protective conductor current         <0.7 mA           Inrush current         18 A ⁴)           Max. ECG no. on circuit breaker 10 A (B)         50           Max. ECG no. on circuit breaker 16 A (B)         81           Surge capability (L/N-Ground)         2 kV ⁵)           Surge capability (L-N)         1 kV           Nominal output voltage         2140 V           U-OUT (working voltage)         60 V           Nominal output current         600 mA           Output ripple current (100 Hz)         < 5 %           Output PSTLM         ≤1           Output SVM         ≤0.4           Nominal output power         12.624 W ⁵)           Maximum output power         24 W	Nominal input voltage	220240 V
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Surge capability (L-N)         1 kV           Nominal output voltage         2140 V           U-OUT (working voltage)         60 V           Nominal output current         600 mA           Output current tolerance         ±7.5 %           Output ripple current (100 Hz)         < 5 %           Output PSTLM         ≤1           Output SVM         ≤0.4           Nominal output power         12.624 W <sup>6)</sup> Maximum output power         24 W	Max. ECG no. on circuit breaker 16 A (B)	81
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U-OUT (working voltage) 60 ∨  Nominal output current 600 mA  Output current tolerance ±7.5 %  Output ripple current (100 Hz) <5 %  Output PSTLM ≤1  Output SVM ≤0.4  Nominal output power 12.624 W <sup>6)</sup> Maximum output power 24 W	Surge capability (L-N)	1 kV
Nominal output current         600 mA           Output current tolerance         ±7.5 %           Output ripple current (100 Hz)         < 5 %           Output PSTLM         ≤1           Output SVM         ≤0.4           Nominal output power         12.624 W <sup>6)</sup> Maximum output power         24 W	Nominal output voltage	2140 V
Output current tolerance         ±7.5 %           Output ripple current (100 Hz)         < 5 %           Output PSTLM         ≤1           Output SVM         ≤0.4           Nominal output power         12.624 W <sup>6)</sup> Maximum output power         24 W	U-OUT (working voltage)	60 V
Output ripple current (100 Hz)         < 5 %           Output PSTLM         ≤1           Output SVM         ≤0.4           Nominal output power         12.624 W <sup>6)</sup> Maximum output power         24 W	Nominal output current	600 mA
Output PSTLM       ≤1         Output SVM       ≤0.4         Nominal output power       12.624 W <sup>6)</sup> Maximum output power       24 W	Output current tolerance	±7.5 %
Output SVM ≤0.4  Nominal output power 12.624 W <sup>6)</sup> Maximum output power 24 W	Output ripple current (100 Hz)	< 5 %
Nominal output power 12.624 W <sup>6)</sup> Maximum output power 24 W	Output PSTLM	≤1
Maximum output power 24 W	Output SVM	≤0.4
	Nominal output power	12.624 W <sup>6)</sup>
Galvanic isolation SELV	Maximum output power	24 W
	Galvanic isolation	SELV

<sup>1)</sup> At full load

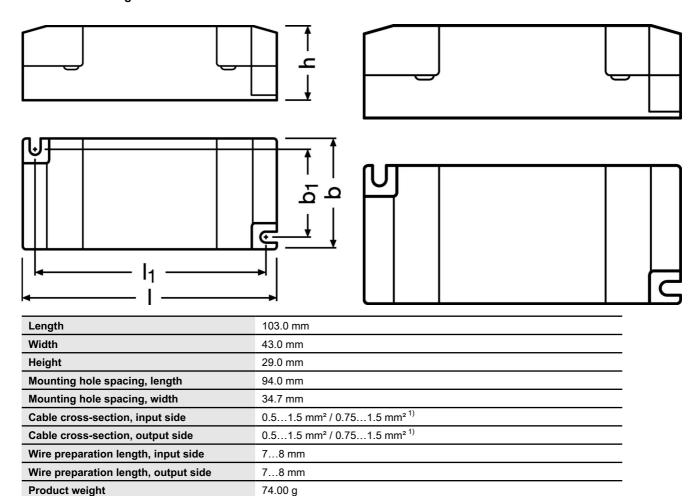
<sup>2)</sup> at 230 V, 50 Hz

<sup>3)</sup> At 230 V, Input power 27.59 W max. 4) t<sub>width</sub> = 94 µs typical (measured at 50 % I<sub>peak</sub>) 5) L/N – PE acc to EN 61547 Cluase 5.7

<sup>6)</sup> Partial load

## inventronics

#### **Dimensions & weight**



<sup>1)</sup> 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	585 % <sup>1)</sup>

<sup>1)</sup> Non-condensing



#### Lifespan

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

1) At maximum T<sub>c</sub> = 75°C / 10% failure rate / At maximum T<sub>c</sub> = 60°C / 10% failure rate

#### Additional product data

Encapsulated	No
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#### Capabilities

Dimmable	No
Max. cable length to lamp/LED module	2.0 m <sup>1)</sup>
Suitable for fixtures with prot. class	1/11
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

<sup>1)</sup> 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 1)			
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. IEC 61000-3-2 / Acc. to IEC 61547 / Acc. to IEC 61000-3-3			
Type of protection	IP20			
Protection class	II			

<sup>1)</sup> In preparation

#### Logistical data

Commodity code	85044083900

#### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)					
Date of Declaration	<b>claration</b> 22-03-2024				
Primary Article Identifier	4062172355551				
Declaration No. in SCIP database	In work				



#### **Download Data**

File					
Certificates	PDF	►ELEMENT G4 NSW28114			
Certificates	PDF	►ELEMENT G4 ENEC 64142225031701 CERT U6			
Certificates	PDF	►ELEMENT G4 CB 211 14220734 000			
Certificates	PDF	►ELEMENT G4 CCC 25 30W build in 2023171002004872			
Mandatory Publications	PDF	►ELEMENT G4 CE 4460618 020823			
Mandatory Publications	PDF	►ELEMENT G4 UKCE 4460638			
User instruction	PDF	►ELEMENT G4 UI OSRAM address G15120095			
User instruction	PDF	►ELEMENT G4 UI OSRAM address G15120095			

#### 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
4062172355551	ELEMENT 25/220240/600	Shipping carton box 50 Pieces	306 x 221 x 173 mm	11.70 dm³	4039.00 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

#### Disclaimer

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