

## ELEMENT G2

Constant Voltage – Non dimmable



### Areas of application

- Decorative lighting in hospitality, restaurants and Shops
- Shelf lighting
- Cove lighting
- Under cabinet lighting

### Product family benefits

- High efficiency (up to 91 %)
- Higher quality of light thanks to < 3% output ripple current
- Excellent price/performance ratio
- Class II design for wide application
- 3 years guarantee

### 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 datasheet

### Technical data

#### Electrical data

Product description	Efficiency in full-load	Maximum output power
ELEMENT 30/220-240/24 G2	86 % <sup>1)</sup>	30 W
ELEMENT 60/220-240/24 G2	88 % <sup>1)</sup>	60 W
ELEMENT 120/220-240/24 G2	89 % <sup>1)</sup>	120 W
ELEMENT 180/220-240/24 G2	91 % <sup>1)</sup>	180 W

<sup>1)</sup> at 230 V, 50 Hz

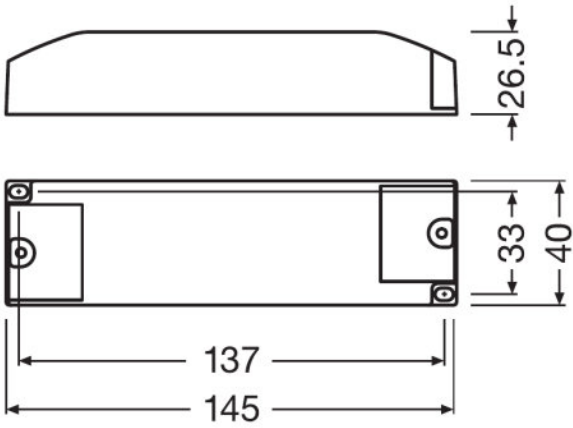
#### Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
ELEMENT 30/220-240/24 G2	137 mm	107.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>	5.0 mm
ELEMENT 60/220-240/24 G2	192 mm	184.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>	5.0 mm
ELEMENT 120/220-240/24 G2	252 mm	386.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>	5.0 mm
ELEMENT 180/220-240/24 G2	292 mm	472.00 g	0.75...1.5 mm <sup>2</sup>	0.75...1.5 mm <sup>2</sup>	5.0 mm

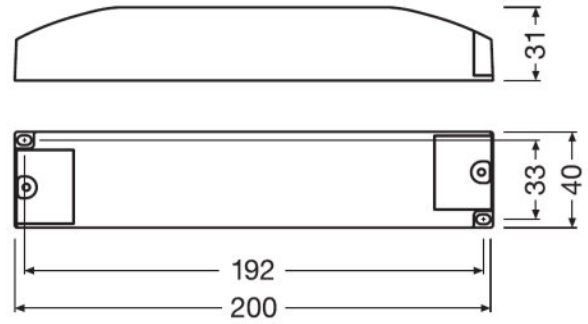
Product description	Length	Width	Height
ELEMENT 30/220-240/24 G2	145.0 mm	40.0 mm	26.5 mm
ELEMENT 60/220-240/24 G2	200.0 mm	40.0 mm	31.0 mm
ELEMENT 120/220-240/24 G2	260.0 mm	40.0 mm	31.0 mm
ELEMENT 180/220-240/24 G2	300.0 mm	40.0 mm	31.0 mm

# Product family datasheet

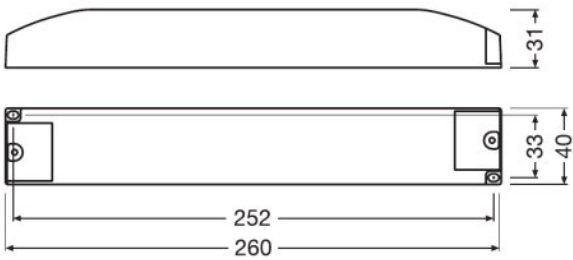
## Product line drawing



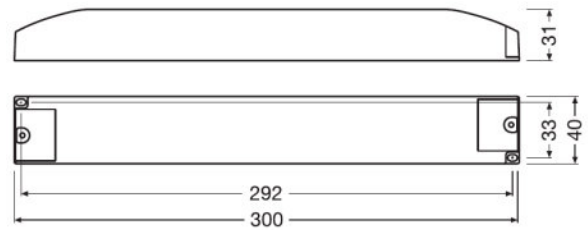
ELEMENT 30/220-240/24 G2



ELEMENT 60/220-240/24 G2



ELEMENT 120/220-240/24 G2



ELEMENT 180/220-240/24 G2

## Product family datasheet

### Colors & materials

Product description	Casing material
ELEMENT 30/220-240/24 G2	Plastic
ELEMENT 60/220-240/24 G2	Plastic
ELEMENT 120/220-240/24 G2	Plastic
ELEMENT 180/220-240/24 G2	Plastic

### Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
ELEMENT 30/220-240/24 G2	-20...+50 °C	75 °C	110 °C	-40...+85 °C
ELEMENT 60/220-240/24 G2	-20...+50 °C	85 °C	110 °C	-40...+85 °C
ELEMENT 120/220-240/24 G2	-20...+50 °C	90 °C	110 °C	-40...+85 °C
ELEMENT 180/220-240/24 G2	-20...+50 °C	90 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
ELEMENT 30/220-240/24 G2	5...85 % <sup>1)</sup>
ELEMENT 60/220-240/24 G2	5...85 % <sup>1)</sup>
ELEMENT 120/220-240/24 G2	5...85 % <sup>1)</sup>
ELEMENT 180/220-240/24 G2	5...85 % <sup>1)</sup>

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

### Lifespan

Product description	ECG lifetime
ELEMENT 30/220-240/24 G2	30000 h <sup>1)</sup>
ELEMENT 60/220-240/24 G2	30000 h <sup>1)</sup>
ELEMENT 120/220-240/24 G2	30000 h <sup>1)</sup>
ELEMENT 180/220-240/24 G2	30000 h <sup>1)</sup>

<sup>1)</sup> At maximum T<sub>c</sub> / 10% failure rate

### Capabilities

Product description	Intended for no-load operation
ELEMENT 30/220-240/24 G2	No
ELEMENT 60/220-240/24 G2	No
ELEMENT 120/220-240/24 G2	No
ELEMENT 180/220-240/24 G2	No

## Product family datasheet

### Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
ELEMENT 30/220-240/24 G2	CE / RCM / CCC / MM	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	IP20
ELEMENT 60/220-240/24 G2	CE / RCM / CCC / MM	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	IP20
ELEMENT 120/220-240/24 G2	CE / RCM / CCC / MM	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	IP20
ELEMENT 180/220-240/24 G2	CE / RCM / CCC / MM	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	IP20

### Logistical data

Product description	Commodity code
ELEMENT 30/220-240/24 G2	850440829000
ELEMENT 60/220-240/24 G2	850440829000
ELEMENT 120/220-240/24 G2	850440829000
ELEMENT 180/220-240/24 G2	850440829000

### Application advice

For more detailed application information and graphics please see product datasheet.

### 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.

## Product family datasheet

Sales and Technical Support

Sales and Technical Support [www.osram.com](http://www.osram.com)

### Download Data

File	
	User instruction ELEMENT G2 Constant Voltage Power Supply
	Product Datasheet ELEMENT 30 G2 Technical Datasheet (EN)
	Declarations of conformity ELEMENT 24V G2 CE 3776665 EN 01 29102020
	CAD data ELEMENT 30 24V G2 STEP 041219
	CAD data ELEMENT 30 24V G2 IGS 041219
	Product Datasheet ELEMENT 60 G2 Technical Datasheet (EN)
	CAD data ELEMENT 60 24V G2 STEP 041219
	CAD data ELEMENT 60 24V G2 IGS 041219
	Product Datasheet ELEMENT 120 G2 Technical Datasheet (EN)
	CAD data ELEMENT 120 24V G2 STEP 041219
	CAD data ELEMENT 120 24V G2 IGS 041219
	Product Datasheet ELEMENT 180 G2 Technical Datasheet (EN)
	CAD data ELEMENT 180 24V G2 STEP 041219
	CAD data ELEMENT 180 24V G2 IGS 041219

## Product family datasheet

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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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### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899605503	ELEMENT 30/220-240/24 G2	Shipping carton box 40	454 mm x 319 mm x 123 mm	17.81 dm <sup>3</sup>	5090.00 g
4052899605527	ELEMENT 60/220-240/24 G2	Shipping carton box 30	454 mm x 219 mm x 164 mm	16.31 dm <sup>3</sup>	6234.00 g
4052899605541	ELEMENT 120/220-240/24 G2	Shipping carton box 20	454 mm x 279 mm x 123 mm	15.58 dm <sup>3</sup>	8470.00 g
4052899605565	ELEMENT 180/220-240/24 G2	Shipping carton box 20	454 mm x 319 mm x 123 mm	17.81 dm <sup>3</sup>	10190.00 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.

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### References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit

▶ [www.osram.com/system-guarantee](http://www.osram.com/system-guarantee)

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### Disclaimer

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

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