

Element LD 8/220...240/180

ELEMENT LD | Compact Constant Current LED Drivers - Non dimmable



Areas of application

- Spotlight and downlight installations for shops
- Recessed luminaires
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

Product family benefits

- Compatible with LEDs with Chip-On-Board technology and discrete LEDs
- High efficiency
- Simple installation and wiring

Product family features

- Available with wattages up to 60 W
- Constant output current
- Integrated cable clamp for luminaire and independent installation
- Operated with Safety extra-low voltage (SELV): < 60 V
- Reversible overtemperature, overload, short-circuit and open-circuit protection

Technical data

Electrical data

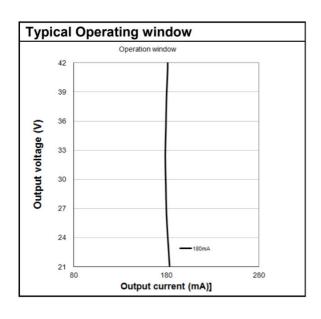
Nominal input voltage	220240 V
Mains frequency	50/60 Hz
Input voltage AC	220240 V ¹⁾
Total harmonic distortion	< 30 %
Power factor λ	0.85 2)
ECG efficiency	82 % ³⁾
Device power loss	1.5 W ⁴⁾
Inrush current	< 16 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	50
Max. ECG no. on circuit breaker 16 A (B)	80
Max. ECG no. on circuit breaker 25 A (B)	-
Surge capability (L/N-Ground)	1 kV
Surge capability (L-N)	1 kV
Nominal output voltage	2142 V ⁶⁾
U-OUT (working voltage)	60 V
Nominal output current	180 mA
Output current tolerance	±10 %
Output ripple current (100 Hz)	40 %
Nominal output power	8 W
Galvanic isolation	SELV

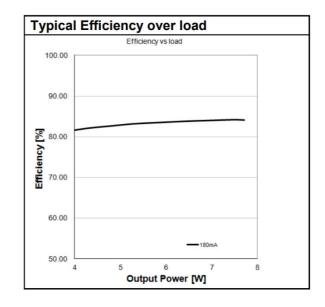
¹⁾ V AC 2) Full load at 230 V/50 Hz

 $^{^{3)}}$ At full load and 230 V / Typical / At 50 Hz

⁴⁾ At 230 V / Input power 9.3 W max.

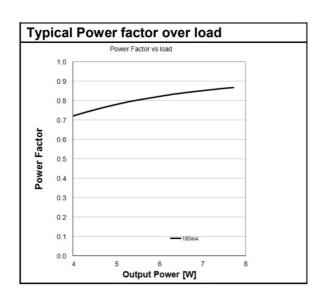
⁵⁾ $_{t}$ = 50 μ s (measured at 50 % I peak) 6) DC voltage

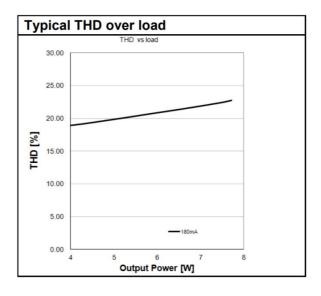




Operating Window

Typical Efficiency v Load 230 V 50 Hz



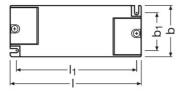


Typical Power Factor v Load

Typical THD v Load

Dimensions & weight





Mounting hole spacing, length	105.0 mm
Mounting hole spacing, width	33.0 mm
Product weight	60.00 g
Cable cross-section, input side	0.51.5 mm ²
Cable cross-section, output side	0.51.5 mm ²
Wire preparation length, input side	8.09.0 mm
Wire preparation length, output side	8.09.0 mm
Length	115.0 mm
Width	45.0 mm
Height	25.0 mm

Colors & materials

Casing material	Plastic

Temperatures & operating conditions

Ambient temperature range	-10+50 °C
Maximum temperature at tc test point	70 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-1070 °C
Permitted rel. humidity during operation	585 % ¹⁾

 $^{^{1)}\,\}mathrm{Maximum}$ 56 days/year at 85 %

Lifespan

ECG lifetime	30000 h ¹⁾

¹⁾ At T $_{case}$ = 70°C at T $_{c}$ point / 10% failure rate

Expected Lifetime

Product name				
Element LD 8/220240/180	ECG ambient temperature [ta]	50	-	-
	Temperature at tc-point [°C]	70	-	-
	Lifetime [h]	30000 ¹⁾	-	-

 $^{^{1)}\,\}mathrm{Max.}\ 10\%$ failure rate at tc max

Additional product data

Encapsulated	No
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Capabilities

Dimmable	No
Overheating protection	Automatic switch off, reversible by manual mains reset
Overload protection	Automatic switch off, reversible by manual mains reset
Short-circuit protection	Automatic reversible
No-load proof	Yes
Max. cable length to lamp/LED module	2.0 m
Suitable for fixtures with prot. class	1/11
Type of connection, output side	Push terminal

Programming

Tuner4TRONIC	No
Tuner4TRONIC Field App	No

Certificates & standards

Approval marks – approval	CCC / CE / ENEC 10 / RCM
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
Protection class	П
Type of protection	IP20

Logistical data

Commodity code 850440829000	
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Download Data

	File
Z	Product Datasheet 608218_Element Technical datasheet 8W
Z	Certificates VDE EMC Certificate 40011668
太	Certificates OT ENEC 40038447 291019
太	Certificates 612430_ELEMENT CE declaration
7	Declarations of conformity ELEMENT LD CE 3377285 121119
=	CAD data 3-dim 642297_Element LD 20 15 8 STEP

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899947078	Element LD 8/220240/180	Shipping carton box 20	252 mm x 240 mm x 75 mm	4.54 dm ³	1784.00 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.