

Element LD 60/220...240/1A4

ELEMENT LD | Compact constant current LED driver - 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	< 10 %	
Power factor λ	0.98 2)	
ECG efficiency	>90 % ³⁾	
Device power loss	8.8 W ⁴⁾	
Inrush current	< 16 A ⁵⁾	
Max. ECG no. on circuit breaker 10 A (B)	13	
Max. ECG no. on circuit breaker 16 A (B)	20	
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	1400 mA	
Output current tolerance	±10 %	
Output ripple current (100 Hz)	15 % ⁷⁾	
Output PSTLM	≤1	
Output SVM	≤0.4	
Nominal output power	60 W	
Galvanic isolation	SELV	

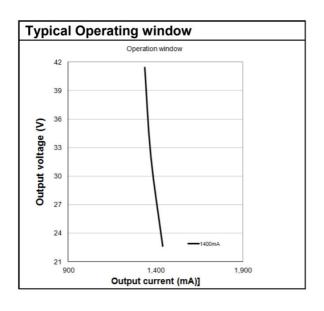
¹⁾ V AC 2) Full load at 230 V/50 Hz

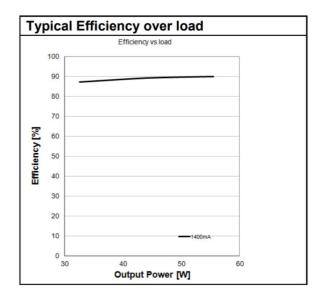
 $^{^{3)}}$ At full load and 230 V / Typical / At 50 Hz

 $^{^{4)}}$ At 230 V / Input power 67.8 W max.

⁵⁾ t width = 50 μs (measured at 50 % I peak)
6) DC voltage

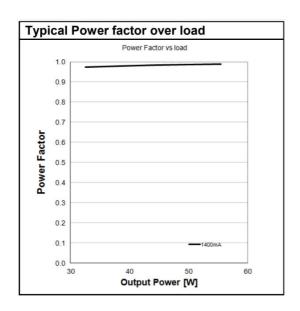
⁷⁾ Ripple average at 100 Hz

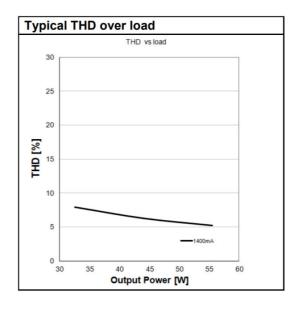




Operating Window

Typical Efficiency v Load 230 V 50 Hz

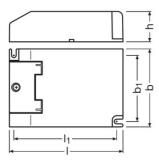




Typical Power Factor v Load

Typical THD v Load

Dimensions & weight



Mounting hole spacing, length	99.0 mm
Mounting hole spacing, width	64.0 mm
Product weight	185.00 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	110.0 mm
Width	75.0 mm
Height	29.5 mm

Colors & materials

Casing material	Plastic

Temperatures & operating conditions

Ambient temperature range	-10+45 °C	
Maximum temperature at tc test point	85 °C	
Max.housing temperature in case of fault	110 °C	
Temperature range at storage	-1085 °C	
Permitted rel. humidity during operation	585 % ¹⁾	

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

Lifespan

¹⁾ At T $_{case}$ = 85°C at T $_{c}$ point / 10% failure rate

Expected Lifetime

Product name				
Element LD 60/220240/1A4	ECG ambient temperature [ta]	45	-	-
	Temperature at tc-point [°C]	85	-	-
	Lifetime [h]	30000 ¹⁾	-	-

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

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

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	Ш	
Type of protection	IP20	

Logistical data

Commodity code	850440829000
Commounty code	030440027000

Download Data

	File
大	User instruction ELEMENT Constant Current LED Driver
7	Product Datasheet 612044_Element Technical datasheet 60W

大	Certificates OT ENEC 40038447 031120
7	Certificates 612430_ELEMENT CE declaration
Z	Certificates CCC Certificate 2018171002002203
7	Declarations of conformity ELEMENT LD CE 3377285 121119
=	CAD data 3-dim 642299_Element LD 60 STEP

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899947139	Element LD 60/220240/1A4	Shipping carton box 20	387 mm x 229 mm x 80 mm	7.09 dm³	4071.00 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.