

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

ELEMENT 55/220-240/1200 CS L

ELEMENT SELV | Linear / Area Constant Current – Non dimmable



Product family features

- Line frequency: 50 Hz | 60 Hz
- Supply voltage: 220...240 V
- Lifetime: up to 50,000 h (temperature at T_c max. = -10 °C, max 10% failure rate)
- SELV driver

Product family benefits

- Small housing design
- Flexible current setting (DIPswitch – 4 currents)
- Enhanced safety due to overload, overtemperature, short-circuit protection

Areas of application

- Linear lighting for office, school and public areas
- Suitable for luminaires of protection class I

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Input voltage DC	not relevant
Total harmonic distortion	< 20 % ¹⁾
Power factor λ	0.98 ²⁾
Efficiency in full-load	89 %
Device power loss	7.0 W ³⁾
Networked standby power	not relevant
Inrush current	12.5 A ⁴⁾
Max. ECG no. on circuit breaker 10 A (B)	25
Max. ECG no. on circuit breaker 16 A (B)	40
Max. ECG no. on circuit breaker 25 A (B)	not relevant
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Nominal output voltage	23...51 V ⁵⁾
U-OUT (working voltage)	< 60 V
Nominal output current	920 mA / 1050 mA / 1075 mA / 1200 mA ⁶⁾
Default output current	1200 mA
Output current tolerance	± 7.5 %
Output ripple current (100 Hz)	< 30 % ⁷⁾
Output PSTLM	≤ 1
Output SVM	≤ 0.7
Nominal output power	21...61 W
Maximum output power	61 W

1) At full load, 230 V, 50 Hz / see graphs

2) Full load at 230 V / 50 Hz

3) At 230 V, Input power 68 W max.

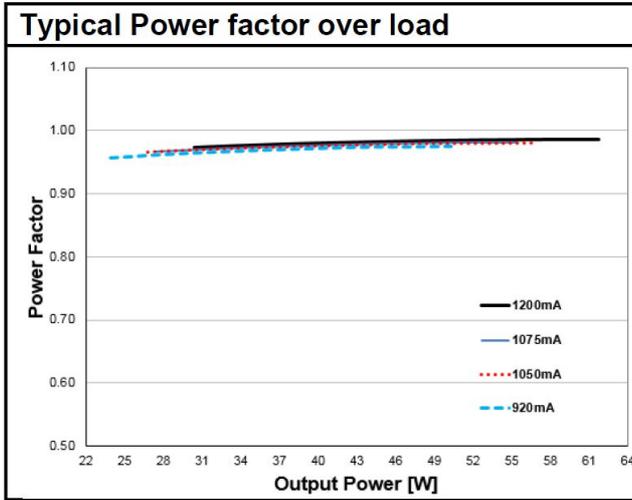
4) $t_{\text{width}} = 180 \mu\text{s}$ typical (measured at 50 % I_{peak})

5) At 920/1050mA / At 1075/1200mA

6) $\pm 7.5\%$

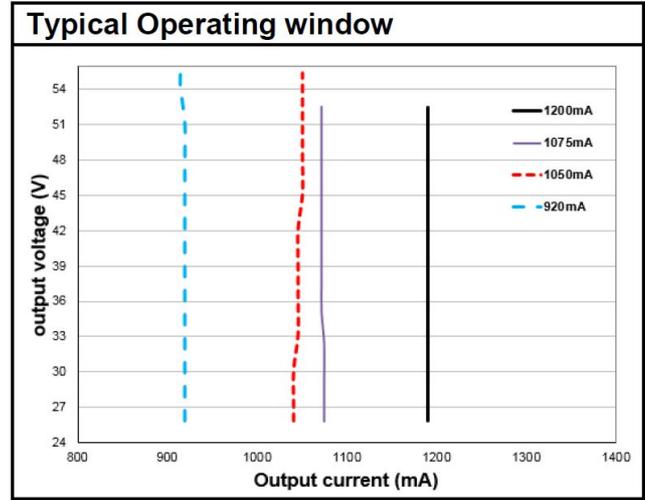
7) Ripple average at 100 Hz

Typical Power Factor v Load



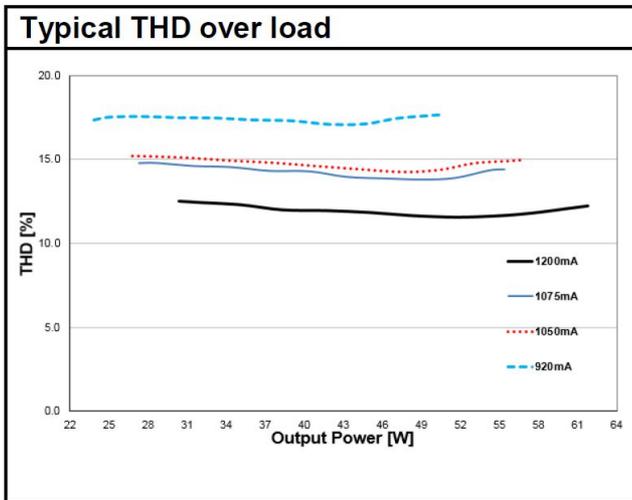
ELEMENT 55/220-240/1200 CS L Typical Power Factor vs. Load

Operating Window



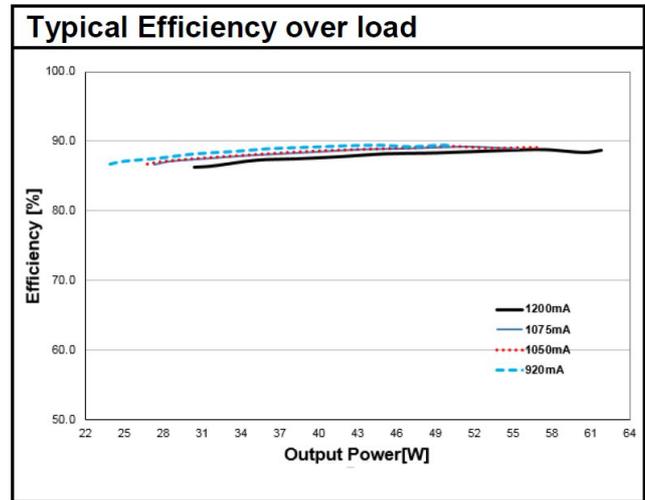
ELEMENT 55/220-240/1200 CS L Operating Window

Typical THD v Load



ELEMENT 55/220-240/1200 CS L Typical THD Vs Load

Typical Efficiency v Load 230 V 50 Hz



ELEMENT 55/220-240/1200 CS L Typical Efficiency vs. Load (230 V / 50 Hz)

Dimensions & weight



Product weight	145.00 g
Length	210.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	200.0 mm
Cable cross-section, input side	0.5... 1.5 mm ² / 0.75... 1.5 mm ² ¹⁾
Cable cross-section, output side	0.5... 1.5 mm ² / 0.75... 1.5 mm ² ¹⁾
Wire preparation length, input side	8.5...9.5 mm
Wire preparation length, output side	8.5...9.5 mm

1) Solid or flexible leads

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	80 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾

1) Non-condensing

Lifespan

ECG lifetime	35000 h / 50000 h ¹⁾
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1) At maximum $T_c = 80^\circ\text{C}$ / 10% failure rate, At $T_c = 70^\circ\text{C}$ / 10% failure rate

Capabilities

Programming interface	Dipswitch
Dimmable	No
Constant lumen function	No
Max. cable length to lamp/LED module	2.0 m ¹⁾
Suitable for fixtures with prot. class	I
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Number of channels	1
Overheating protection	Automatic reversible
Overload protection	Automatic reversible
Short-circuit protection	Automatic reversible
Intended for no-load operation	No
No-load proof	Yes

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

Programming

Programming device	DIPswitch
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Certificates & standards

Approval marks – approval	CE / ENEC 05 / EAC / BIS / RCM / CCC
Standards	IEC 61347-1 / EN 61347-2-13 / EN 62384 / EN 61000-3-2 / EN 61000-3-3 / EN 61547
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	13-02-2025
Primary Article Identifier	4052899553156
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

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		
Mandatory Publications	PDF	▶ELEMENT CS L UK DoC 4297439 02 140923
Mandatory Publications	PDF	▶ELEMENT CS L CE 3650277 10 201224

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899553156 OSRAM	ELEMENT 55/220- 240/1200 CS L	Shipping carton box 20 Pieces	228 x 138 x 160 mm	5.03 dm ³	158.90 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.