

ELEMENT 44/220...240/1050 S

ELEMENT S | Constant Current Compact – 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 44 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

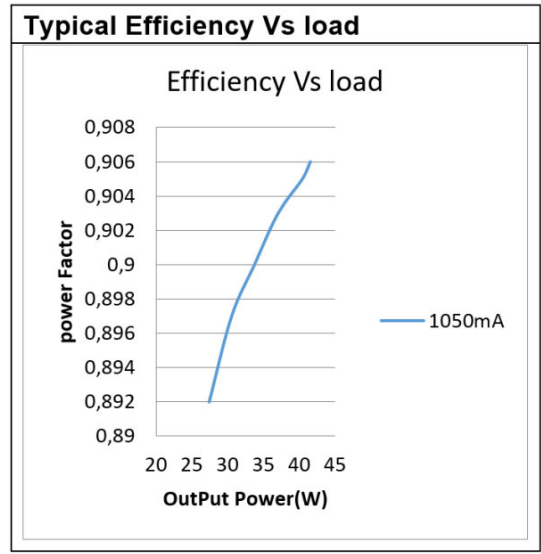
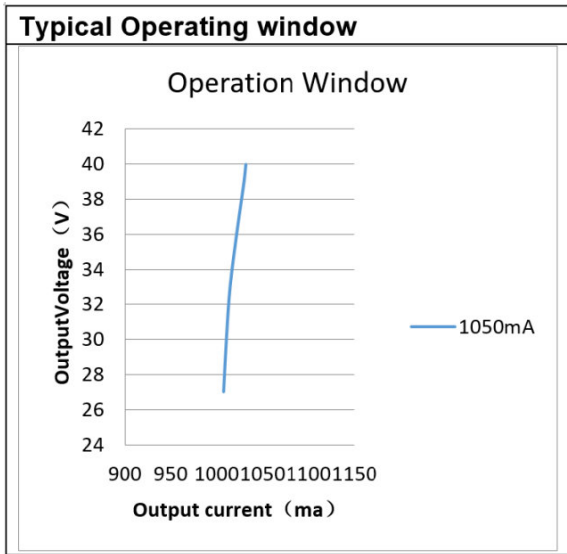
Electrical data

| | |
|--|----------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Input voltage AC | 198...264 V |
| Total harmonic distortion | < 20 % |
| Power factor λ | 0.95 |
| ECG efficiency | < 90 % ¹⁾ |
| Device power loss | 5.7 W ²⁾ |
| Protective conductor current | <0.7 mA |
| Inrush current | < 11 A ³⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 18 |
| Max. ECG no. on circuit breaker 10 A (C) | - |
| Max. ECG no. on circuit breaker 16 A (B) | 29 |
| Max. ECG no. on circuit breaker 16 A (C) | - |
| Max. ECG no. on circuit breaker 25 A (B) | - |
| Surge capability (L/N-Ground) | 2 kV |
| Surge capability (L-N) | 1 kV |
| Nominal output voltage | 30...42 V |
| U-OUT (working voltage) | 60 V |
| Nominal output current | 1050 mA |
| Output current tolerance | ± 7.5 % |
| Output ripple current (100 Hz) | < 30 % |
| Output PSTLM | ≤ 1 |
| Output SVM | ≤ 0.8 |
| Nominal output power | 28.3...42 W |
| Galvanic isolation | SELV |
| Current set | - |

¹⁾ At 50 Hz / At full load and 230 V

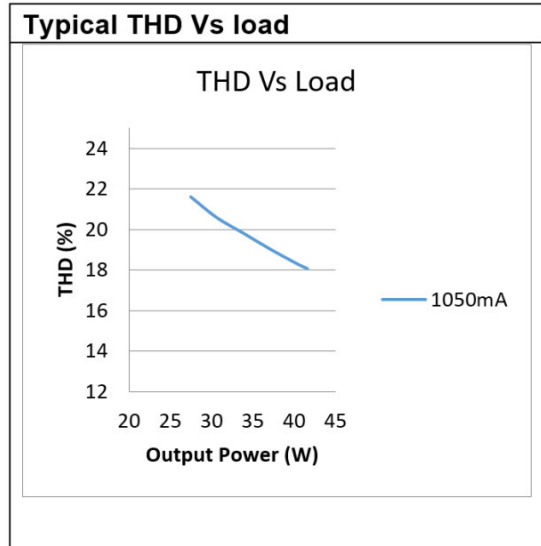
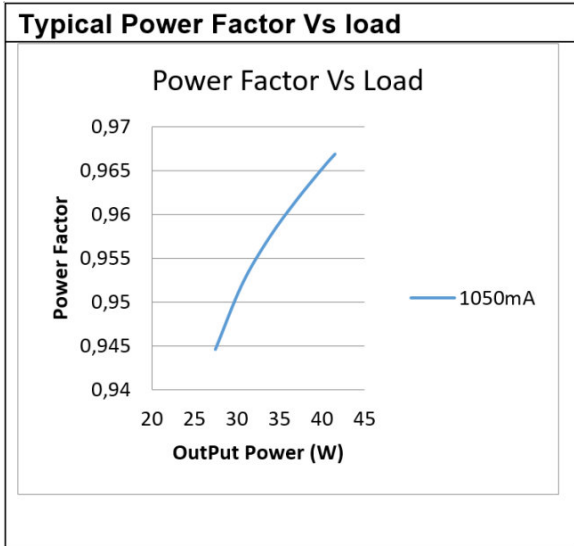
²⁾ At 230 V, Input power 46.6 W max.

³⁾ $t_{width} = 155 \mu s$ (measured at 50 % I_{peak})



Operating Window

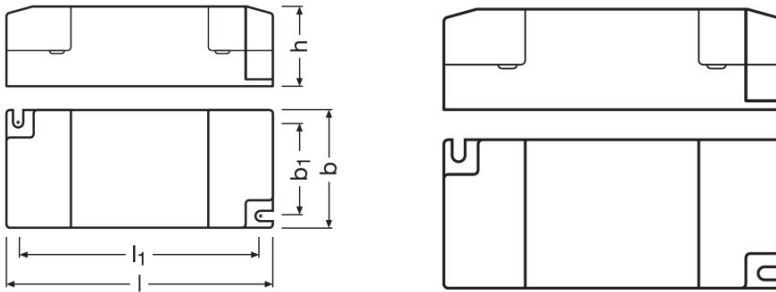
Typical Efficiency v Load 230 V 50 Hz



Typical Power Factor v Load

Typical THD v Load

Dimensions & weight



| | |
|---|---|
| Mounting hole spacing, length | 88.0 mm |
| Mounting hole spacing, width | 34.0 mm |
| Product weight | 88.00 g |
| Cable cross-section, input side | 0.5...1.5 / 0.75...1.5 mm ^{2 1)} |
| Cable cross-section, output side | 0.5...1.5 / 0.75...1.5 mm ^{2 1)} |
| Wire preparation length, input side | 7...8 mm |
| Wire preparation length, output side | 7...8 mm |
| Length | 97.0 mm |
| Width | 43.0 mm |
| Height | 29.0 mm |

¹⁾ Solid or flexible leads

Colors & materials

| | |
|------------------------|---------|
| Casing material | Plastic |
|------------------------|---------|

Temperatures & operating conditions

| | |
|---|------------------------|
| Ambient temperature range | -20...+50 °C |
| Maximum temperature at tc test point | 85 °C ¹⁾ |
| Max.housing temperature in case of fault | 110 °C |
| Temperature range at storage | -40...+85 °C |
| Permitted rel. humidity during operation | 5...95 % ²⁾ |

¹⁾ Measured on tc point indicated on the product label.

²⁾ Non-condensing

Lifespan

| | |
|---------------------|-------------------------------|
| ECG lifetime | 30000 / 50000 h ¹⁾ |
|---------------------|-------------------------------|

¹⁾ At maximum $T_c = 85^\circ\text{C}$ / 10% failure rate / At maximum $T_c = 75^\circ\text{C}$ / 10% failure rate

Product datasheet

Additional product data

| | |
|--------------|----|
| Encapsulated | No |
|--------------|----|

Capabilities

| | |
|--|----------------------|
| Dimmable | No |
| Overheating protection | Automatic reversible |
| Overload protection | Automatic reversible |
| 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 | I / II |
| Type of connection, input side | Push terminal |
| Type of connection, output side | Push terminal |
| Number of channels | 1 |

Programming

| | |
|------------------------|----|
| Tuner4TRONIC | No |
| Tuner4TRONIC Field App | No |





Certificates & standards

| | |
|---------------------------|--|
| Approval marks – approval | ENEC 05 / CCC / RCM / CE |
| Standards | Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to IEC 61547/Acc. to IEC 61000-3-3 |
| Type of protection | IP20 |

Logistical data

| | |
|----------------|--------------|
| Commodity code | 850440829000 |
|----------------|--------------|

Download Data

| File | |
|---|---|
|  | User instruction ELEMENT LED Power Supply |
|  | Declarations of conformity ELEMENT CE 3754517 280520 |
|  | CAD data Element S 33_44 IGS 120220 |
|  | CAD data Element S 33_44 STEP 120220 |

Product datasheet



CAD data 3-dim
Element S 33_44 CAD3PDF 120220

Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---------------|--------------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899553057 | ELEMENT 44/220...240/1050 S | Shipping carton box 50 | 232 mm x 212 mm x 190 mm | 9.34 dm ³ | 4685.00 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.