

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

## IT DALI 25/220-240/500 LT2 L (NEW)

ICUTRONIC Intelligent – DALI LEDset LT2 (SELV) | Linear constant current LED driver – Dimmable



### Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- With Touch DIM and Corridor Function
- Supply voltage: 220...240 V
- Available with output current range: up to 2,100 mA
- SELV driver
- Constant Lumen Output (CLO)
- Versatile scope of application due to output power range of up to 100 W
- IP rating: IP20

### Product family benefits

- DALI-2 certified
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at  $T_c = 65^\circ\text{C}$ , max. 10 % failure rate)
- High-quality dimming of 3...100 % by amplitude dimming
- Wide operating range
- High quality of light thanks to <3% output ripple current
- High efficiency
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection
- Non-isolated driver
- Small, slim white metal housing (W )30 x (H)21 mm

## Areas of application

- Linear and area lighting
- Linear lighting for office, education, industry, storage areas and retail
- Installation in emergency lighting systems according to IEC 61347-2-13, appendix J, except those used in high-risk task areas, i.e. those systems must not be used in workplaces where operators and other occupants of the premises are involved in potentially dangerous processes or situations.
- Suitable for luminaires of protection class I
- Suitable for emergency light installations

## Technical data

### Electrical data

|  |                            |
|--|----------------------------|
| Nominal input voltage                    | 220...240 V                |
| Mains frequency                          | 50Hz/60Hz/0 Hz             |
| Input voltage AC                         | 198...264 V <sup>1)</sup>  |
| Input voltage DC                         | 176...276 V                |
| Nominal input current at 230 V           | 0.13 A                     |
| Total harmonic distortion                | < 10 %                     |
| Power factor $\lambda$                   | 0.57C...0.99 <sup>2)</sup> |
| Efficiency in full-load                  | 91.6 % <sup>3)</sup>       |
| Device power loss                        | 3.0 W <sup>4)</sup>        |
| Networked standby power                  | <0.40 W <sup>3)</sup>      |
| Inrush current                           | 18.6 A <sup>5)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 42                         |
| Max. ECG no. on circuit breaker 16 A (B) | 67                         |
| Surge capability (L-N)                   | 1 kV                       |
| Surge capability (L/N-Ground)            | 2 kV <sup>6)</sup>         |
| Protective conductor current             | 0.33 mA                    |
| Nominal output voltage                   | 20...54 V                  |
| U-OUT (working voltage)                  | < 60 V                     |
| Nominal output current                   | 200...500 mA               |
| Minimum output current                   | 200 mA                     |
| Default output current                   | 200 mA                     |
| Output current tolerance                 | ±5 %                       |
| Output ripple current (100 Hz)           | < 3 % <sup>7)</sup>        |
| Output PSTLM                             | <1                         |
| Output SVM                               | <0.4                       |
| Output current LEDset open               | 200 mA <sup>8)</sup>       |
| Output current LEDset shorted            | 500 mA                     |
| Nominal output power                     | 4...25 W                   |
| Maximum output power                     | 25 W                       |

1) AC or RAC

2) Full load, 220...240 V, 50 Hz / see graphs

3) at 230 V, 50 Hz

4) Maximum / At 230 V, full load

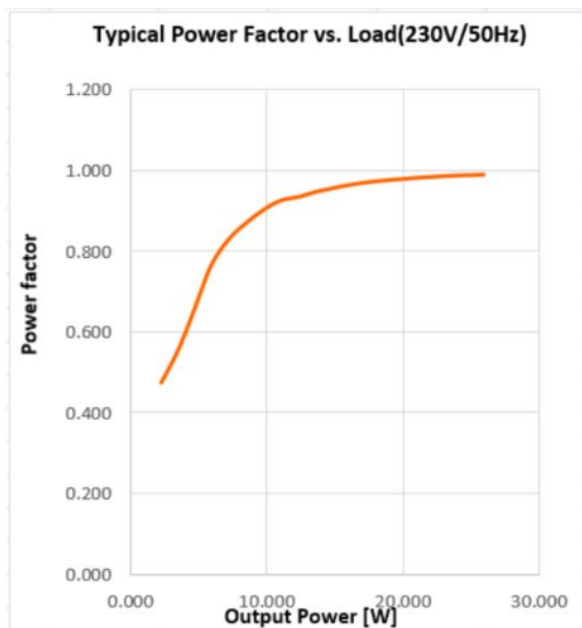
5)  $t_h = 109 \mu s$

6) L/N – PE acc to EN 61547 Clause 5.7

7) 100 Hz., low freq. ripple is negligible

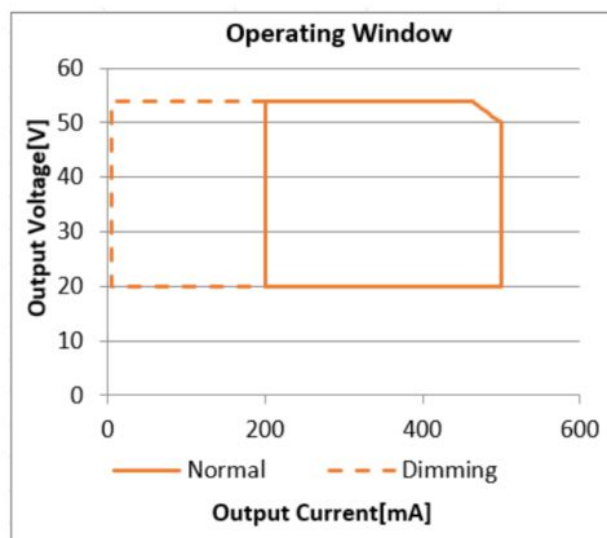
8) LEDset vs LEDsetGND open

## Typical Power Factor v Load



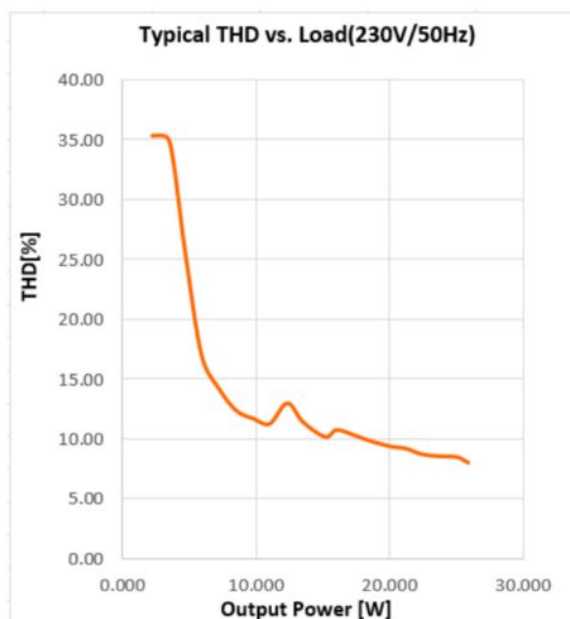
Typical Power Factor vs. Load-IT DALI 25 220-240 LT2 L

## Operating Window



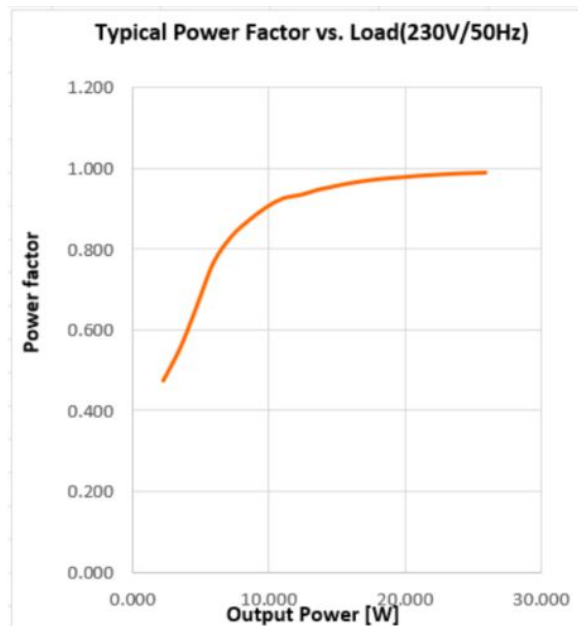
Operation Window-IT DALI 25 220-240 LT2 L

## Typical THD v Load



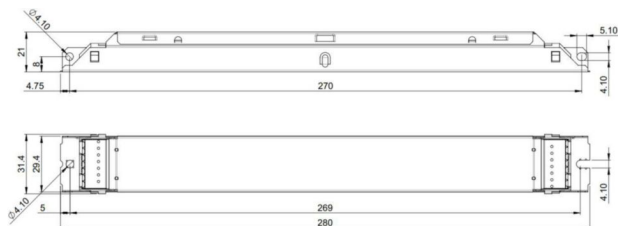
Typical THD vs Load-IT DALI 25 220-240 LT2 L

## Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency Vs. Load-IT DALI 25 220-240 LT2 L

## Dimensions & weight



|   |                              |
|---|------------------------------|
| <b>Product weight</b>                       | 177.40 g                     |
| <b>Length</b>                               | 280.0 mm                     |
| <b>Width</b>                                | 30.0 mm                      |
| <b>Height</b>                               | 21.0 mm                      |
| <b>Mounting hole spacing, length</b>        | 270.0 mm                     |
| <b>Cable cross-section, input side</b>      | 0.5...1.5 mm <sup>2 1)</sup> |
| <b>Cable cross-section, output side</b>     | 0.5...1.5 mm <sup>2 1)</sup> |
| <b>Wire preparation length, input side</b>  | 8.0...9.0 mm                 |
| <b>Wire preparation length, output side</b> | 8.0...9.0 mm                 |

1) Solid/ Flexible Leads

## Colors & materials

|                        |       |
|------------------------|-------|
| <b>Casing material</b> | Metal |
| <b>Product color</b>   | White |

## Temperatures & operating conditions

|   |                        |
|---|------------------------|
| <b>Ambient temperature range</b>                | -25...+60 °C           |
| <b>Maximum temperature at tc test point</b>     | 75 °C <sup>1)</sup>    |
| <b>Max.housing temperature in case of fault</b> | 110 °C                 |
| <b>Temperature range at storage</b>             | -25...85 °C            |
| <b>Permitted rel. humidity during operation</b> | 5...85 % <sup>2)</sup> |
| <b>Permitted relative humidity at storage</b>   | 5...85 %               |

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

2) Maximum 56 days/year at 85 %

## Lifespan

|              |                                  |
|--------------|----------------------------------|
| ECG lifetime | 50000 h / 100000 h <sup>1)</sup> |
|--------------|----------------------------------|

1) At T<sub>c</sub> = 75°C / 10% failure rate / At T<sub>c</sub> = 65°C / 10% failure rate

## Additional product data

|                 |               |
|-----------------|---------------|
| Predecessor EAN | 4062172126212 |
|-----------------|---------------|

## Capabilities

|  |  |
|--|--|
| Programming interface                  | DALI - 2   |
| Control interface                      | DALI-2   |
| Dimmable                               | Yes  |
| Dimming interface                      | DALI-2 / Touch DIM / LEDset / Corridor                           |
| Dimming range                          | 3...100 %  |
| Dimming method                         | Full analogue dimming  |
| DALI-2 Diagnostic Data                 | No   |
| DALI-2 Energy Data                     | No   |
| Constant lumen function                | Programmable   |
| LEDset                                 | Yes  |
| Max. cable length to lamp/LED module   | 2.0 m <sup>1)</sup>  |
| Suitable for fixtures with prot. class | I  |
| Suitable for emergency lighting        | Yes  |
| EL DC detection selectable             | Yes  |
| EL EOFi – default value                | EOFi =0.5, @Ta=80°C, no hazard<br>EOFi =0.5, @Ta=60°C, no hazard |
| EL EOFi – rated value                  | 15...50 %  |
| 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     | DALI magic |
| Tuner4TRONIC Field App | Yes        |

## Programmable features

|                       |     |
|-----------------------|-----|
| DALI Settings         | Yes |
| DALI-2 Luminaire Data | No  |
| TouchDIM + Sensor     | No  |
| Dim to Dark           | No  |
| Driver Guard          | Yes |
| Emergency Mode        | Yes |

## Certificates & standards

|                           |   |
|---------------------------|---|
| Approval marks – approval | CE / ENEC / CCC / BIS / RCM / DALI-2 / EL <sup>1)</sup>   |
| Standards                 | IEC 61347-1 / IEC 61347-2-13 / IEC 62384 / IEC 61000-3-2 / IEC 61000-3-3 / IEC 61547 / CISPR 15 |
| Type of protection        | IP20  |

1) In preparation

## Logistical data

|                |             |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

## Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |  |
|---|--|
| Date of Declaration   | 22-05-2025   |
| Candidate List Substance 1  | Lead   |
| Primary Article Identifier  | 6977770430471  |
| CAS No. of substance 1  | 7439-92-1  |
| Safe Use Instruction  | The identification of the Candidate List substance is sufficient to allow safe use of the article. |
| Declaration No. in SCIP database                                      | 6ca1e006-3430-40c7-b635-bc4b491eac89   |
| 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.



## Additional product information

- The lamp control gear relies upon the luminaire enclosure for protection against accidental contact with live parts.
- Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- The control gear is not intended for use in luminaires for high-risk task area lighting.

## Download Data

| File                   |         |   |
|------------------------|---------|---|
| Certificates           | PDF     | ▶ IT DALI LT2 L CB DE1 69546 110325         |
| Certificates           | PDF     | ▶ IT DALI LT2 L ENEC 40058248 110325        |
| Certificates           | PDF     | ▶ IT DALI LT2 L CCC 2025011002764812 260325 |
| CAD data 3-dim         | UNKNOWN | ▶ IT DALI LT2 L_3D                          |
| Mandatory Publications | PDF     | ▶ IT DALI LT2 L CE 4169152 00 180325        |
| User instruction       | PDF     | ▶ UI IT DALI LT2 L                          |

## Logistical Data

| Product code                  | Product description             | Packaging unit<br>(Pieces/Unit)  | Dimensions (length<br>x width x height) | Volume               | Gross weight |
|-------------------------------|---------------------------------|----------------------------------|---|----------------------|--------------|
| 6977770430471<br>INVENTRONICS | IT DALI 25/220-240/500<br>LT2 L | Shipping carton box<br>20 Pieces | 305 x 161 x 104 mm                      | 5.11 dm <sup>3</sup> | 186.25 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.