# IT DALI 12/220-240/300 CS

ICUTRONIC DALI CS | Constant Current Compact – Dimmable


## Product family features

- Supply voltage: 220…240 V
- Line voltage: 198…264 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Lifetime: up to 50,000 h (temperature at max. $t_c$)
- Type of protection: IP20

## Product family benefits

- Safety ensured by OSRAM (SELV)
- DALI-2 certified
- High flexibility due to eight different output currents
- Touch DIM application: easy to control via pushbutton or sensor
- Easy to use in corridors and restrooms because of three-level Corridor function
- Higher quality of light thanks to low output ripple current
- Small housing for flexible luminaire designs
- Housing from 80% recycled plastic

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## Areas of application

- Offices
- Shops
- Hospitality
- Panels, spotlight, downlight, and other indoor LED luminaires
- Suitable for indoor SELV equivalent installations
- Suitable for luminaires of protection classes I and II
- Installation in emergency lighting systems according to IEC 61347-2-3, appendix J

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## Technical data

### Electrical data

| | |
|---|---|
| **Device power loss** | 3.0 W [1)] |
| **Nominal output voltage** | 9…42 V [2)] |
| **Input voltage DC** | 176…276 V |
| **Nominal output current** | 90 mA / 100 mA / 120 mA / 150 mA / 180 mA / 200 mA / 250 mA / 300 mA [3)] |
| **Inrush current** | 25 A [4)] |
| **Max. ECG no. on circuit breaker 10 A (B)** | 34 |
| **Max. ECG no. on circuit breaker 16 A (B)** | 54 |
| **Nominal output power** | 0.8…12.6 W [5)] |
| **Input voltage AC** | 198…264 V [6)] |
| **Power factor λ** | 0.51C...0.98 |
| **U-OUT (working voltage)** | 60 V |
| **Surge capability (L-N)** | 1 kV |
| **Surge capability (L/N-Ground)** | 2 kV |
| **Mains frequency** | 0/50/60 Hz |
| **Protective conductor current** | <0.7 mA |
| **Nominal input voltage** | 220…240 V |
| **Total harmonic distortion** | < 10 % [7)] |
| **Minimum output current** | 3 mA [8)] |
| **Output current tolerance** | ±5 % |
| **Maximum output power** | 12.6 W |
| **Output ripple current (100 Hz)** | < 5 % [9)] |
| **Current set** | DipSwitch |
| **Networked standby power** | <0.50 W [10)] |

1) Maximum / Full load, 230 Vac, 50Hz / 60Hz
2) Maximum 60 V
3) Default current: 300 mA
4) $t_{width}$ = 100 µs (measured at 50 % $I_{peak}$)
5) Partial load 0.8…12.6 W
6) Permitted voltage range
7) At full load, 220…240 V, 50 Hz / see graphs
8) At output voltage 30…42 V
9) Ripple average at 100 Hz
10) at 230 V, 50 Hz


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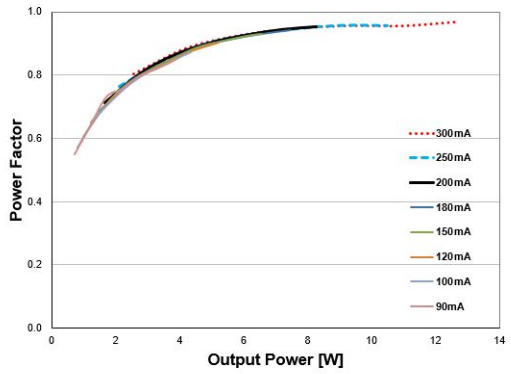
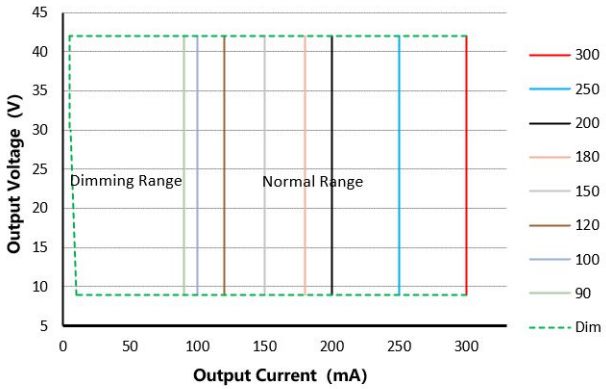
## Typical Power Factor v Load



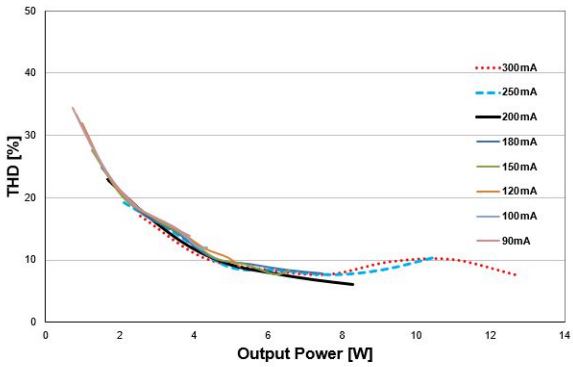

IT DALI 12 220 240 300 CS Typical Power Factor Vs Load

## Operating Window



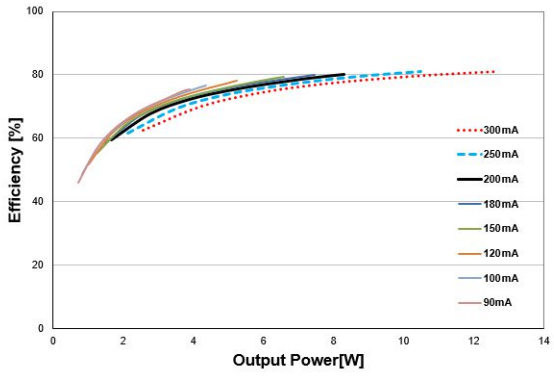

IT DALI 12 220 240 300 CS Typical Operating Window

## Typical THD v Load




IT DALI 12 220 240 300 CS Typical THD Vs Load

## Typical Efficiency v Load 230 V 50 Hz




IT DALI 12 220 240 300 CS Typical Efficiency Vs Load 230V 50Hz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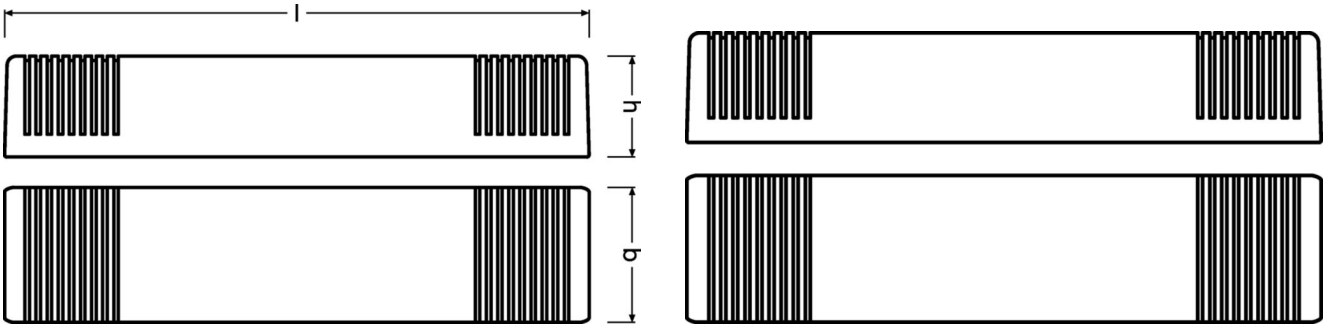
## Dimensions & weight




| | |
|---|---|
| **Product weight** | 68.50 g |
| **Mounting hole spacing, length** | 116.0 mm |
| **Wire preparation length, output side** | 7…8 mm |
| **Wire preparation length, input side** | 7…8 mm |
| **Cable/wire length, output side** | 2000 mm |
| **Cable cross-section, output side** | 0.75…1.5 mm² [1] |
| **Cable cross-section, input side** | 0.75…1.5 mm² [1] |
| **Length** | 130.0 mm |
| **Height** | 22.2 mm |

1) Solid or flexible leads

## Colors & materials

| | |
|---|---|
| **Product color** | White |
| **Casing material** | 80% recycled plastic |

## Temperatures & operating conditions

| | |
|---|---|
| **Max.housing temperature in case of fault** | 110 °C |
| **Maximum temperature at tc test point** | 80 °C [1] |
| **Ambient temperature range** | -20…+50 / -20…+45 °C |
| **Temperature range at storage** | -20…85 °C |
| **Permitted rel. humidity during operation** | 5…85 % [2] |

1) Maximum at the Tc-point
2) Maximum 56 days/year at 85 %



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## Lifespan

| | |
|---|---|
| **ECG lifetime** | 50000 h [1)] |

1) At maximum $T_c$ = 80°C / 10% failure rate

## Additional product data

| | |
|---|---|
| **Encapsulated** | No |
| **Predecessor EAN** | 4052899617131 |

## Capabilities

| | |
|---|---|
| **Max. cable length to lamp/LED module** | 2.0 m [1)] |
| **Dimming range** | 1…100 % [2)] |
| **Dimming method** | Amplitude Modulation |
| **Dimming interface** | DALI-2 / Touch DIM / Corridor |
| **Suitable for through-wiring** | No |
| **Suitable for emergency lighting** | Yes |
| **Short-circuit protection** | Automatic reversible |
| **Overload protection** | Automatic reversible |
| **Overheating protection** | Automatic reversible |
| **Dimmable** | Yes |
| **Suitable for fixtures with prot. class** | I / II |
| **No-load proof** | Yes |
| **Type of connection, input side** | Push terminal |
| **Type of connection, output side** | Push terminal |
| **Constant lumen function** | No |
| **Programming interface** | Dipswitch |

1) Output wires must be routed as close as possible to each other
2) For maximum nominal output current


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### Programming

| | |
|---|---|
| **Box programming** | No |

### Programmable features

| | |
|---|---|
| **Tuning Factor** | No |
| **Driver Guard** | No |
| **DALI Settings** | Yes |
| **Emergency Mode** | Yes |
| **Configuration Lock** | Yes |
| **Soft Switch Off** | No |
| **Dim to Dark** | No |
| **TouchDIM + Sensor** | Yes |
| **Corridor Functionality** | Yes |

### Certificates & standards

| | |
|---|---|
| **Standards** | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to EN 55015 / Acc. to IEC 61547 / Acc. to IEC 61000-3-2 / Acc. to IEC 62384 |
| **Approval marks – approval** | CE / ENEC / EL / RCM / UKCA / CCC / KC / BIS |
| **Type of protection** | IP20 |

### Logistical data

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

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## Download Data

| File | | |
|---|---|---|
| Certificates | PDF | ►IT DALI CS ENEC 64142225005703 U6 020623 |
| CAD data 3-dim | Compressed | ►OT FIT PC CAD3PDF 270722 |
| Product Datasheet | PDF | ►Technical Datasheet IT DALI 12 CS |
| CAD data | Compressed | ►OT FIT PC STEP 270722 |
| Mandatory Publications | PDF | ►IT DALI CS CE 4414207  02 120623 |
| Mandatory Publications | PDF | ►IT DALI CS UK DoC 4414208 01 120623 |
| User instruction | PDF | ►ICUTRONIC LED Power Supply |

## 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.


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## Logistical Data

| Product code | Product description | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume | Gross weight |
|---|---|---|---|---|---|
| 4062172306218 | IT DALI 12/220-240/300 CS | Shipping carton box 20 Pieces | 396 x 162 x 67 mm | 4.30 dm³ | 165.00 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

## Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on www.myosram.com and downloading theTuner4TRONIC software from the Internet. The Tuner4TRONIC software enables users to access and view the operational data of a luminaire or driver via the corresponding programming interfaces. A password key (Config Lock) must be set up in the driver via the Tuner4TRONIC software in order to control which users can access and view operational data. Follow the instructions for password setup. To grant an external person or company rights to access or view operational data, you can assign password keys. In this case, however, you are responsible for ensuring that the third party concerned takes notice of the information described here.
However, OSRAM can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, OSRAM will also use its access rights in order to optimize or improve driver hardware and driver functions. In accordance with data privacy principles, any user of operating data (luminaire manufacturers, third parties with access rights) must ensure that personal data (e.g. name, address, location IDs) are only merged with the prior written consent of the person (end user) concerned. The respective user of the operating data is responsible for providing evidence of consent.

## Disclaimer

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