

## IT DALI 42/220...240/1A0 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



## Product datasheet

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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

## Technical data

### Electrical data

|  |  |
|--|--|
| Nominal input voltage                    | 220...240 V  |
| Mains frequency                          | 0/50/60 Hz   |
| Input voltage AC                         | 198...264 V <sup>1)</sup>  |
| Input voltage DC                         | 176...276 V  |
| Total harmonic distortion                | < 10 % <sup>2)</sup>   |
| Power factor $\lambda$                   | 0.98   |
| Efficiency in full-load                  | 89 % <sup>3)</sup>   |
| Device power loss                        | 5.4 W <sup>4)</sup>  |
| Protective conductor current             | <0.7 mA  |
| Inrush current                           | 30 A <sup>5)</sup>   |
| Max. ECG no. on circuit breaker 10 A (B) | 18   |
| Max. ECG no. on circuit breaker 10 A (C) | 27   |
| Max. ECG no. on circuit breaker 16 A (B) | 28   |
| Max. ECG no. on circuit breaker 16 A (C) | 42   |
| Max. ECG no. on circuit breaker 25 A (B) | 44   |
| Surge capability (L/N-Ground)            | 2 kV   |
| Surge capability (L-N)                   | 1 kV   |
| Nominal output voltage                   | 15...40 V <sup>6)</sup>  |
| U-OUT (working voltage)                  | 60 V   |
| Nominal output current                   | 700 / 750 / 800 / 850 / 900 / 950 / 1000 / 1050 mA <sup>7)</sup> |
| Output current tolerance                 | ±5 %   |
| Output ripple current (100 Hz)           | < 5 % <sup>8)</sup>  |
| Output PSTLM                             | ≤1   |
| Output SVM                               | ≤0.4   |
| Nominal output power                     | 10.5...42 W <sup>9)</sup>  |
| Maximum output power                     | 42 W   |
| Power loss in stand-by mode              | <0.5 W   |
| Galvanic isolation primary/secondary     | SELV   |
| Current set                              | DipSwitch  |
| Default output current                   | 900 mA   |
| Galvanic isolation DALI/mains            | Basic  |
| Galvanic isolation DALI/output           | SELV   |
| Networked standby power                  | <0.50 W <sup>3)</sup>  |

<sup>1)</sup> Permitted voltage range

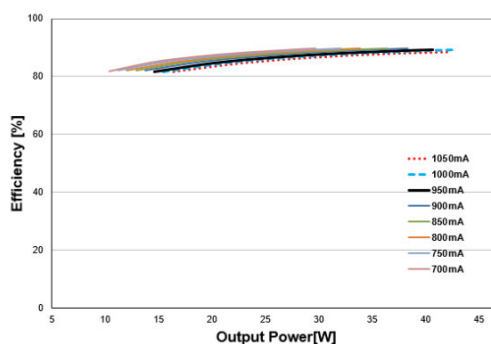
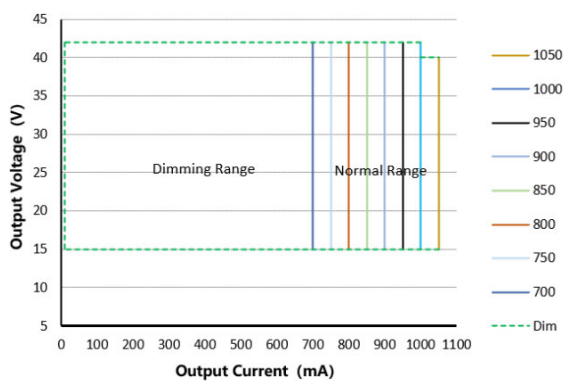
<sup>2)</sup> At full load, 220...240 V, 50 Hz / see graphs

<sup>3)</sup> at 230 V, 50 Hz

<sup>4)</sup> At 230V, Input power 42.7W max.

## Product datasheet

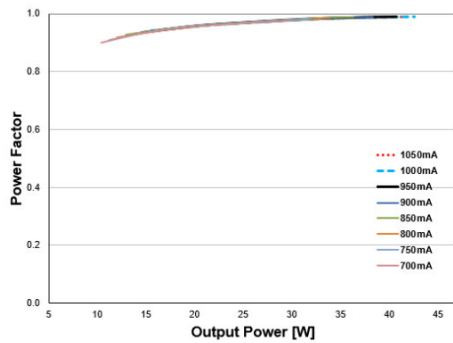
- 5)  $t_{width} = 100 \mu s$  (measured at 50 %  $I_{peak}$ )
- 6) Maximum 60 V / At 1050 mA
- 7) Default current: 900 mA
- 8) Ripple average at 100 Hz
- 9) Partial load 10.5...42 W



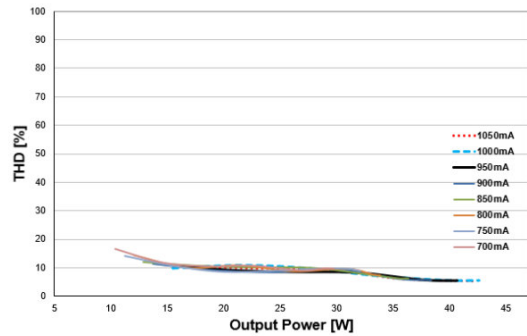
IT DALI 42 220 240 1A0 CS Typical Operating Window

IT DALI 42 220 240 1A0 CS Typical Efficiency Vs Load  
230V 50Hz

## Product datasheet

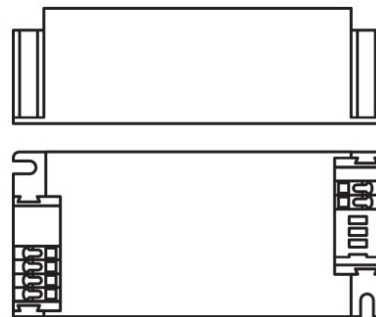
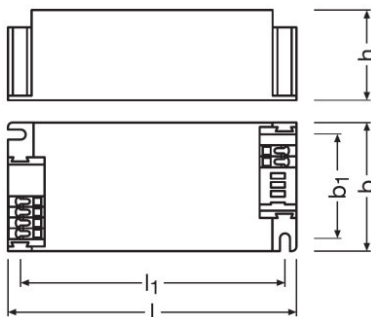


IT DALI 42 220 240 1A0 CS Typical Power Factor Vs Load



IT DALI 42 220 240 1A0 CS Typical THD Vs Load

## Dimensions & weight



|                                      |  |
|--------------------------------------|--|
| Mounting hole spacing, length        | 88.0 mm  |
| Mounting hole spacing, width         | 34.0 mm  |
| Product weight                       | 137.50 g   |
| Cable cross-section, input side      | 0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup> |
| Cable cross-section, output side     | 0.5...1.5 / 0.75...1.5 mm <sup>2</sup> <sup>1)</sup> |
| 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                               | 29.5 mm  |

## Product datasheet

<sup>1)</sup> Build in/ Independent

### Colors & materials

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

### Temperatures & operating conditions

|  |                                      |
|--|--------------------------------------|
| Ambient temperature range                | -20...+50/-20...+45 °C <sup>1)</sup> |
| Maximum temperature at tc test point     | 80 °C <sup>2)</sup>                  |
| Max.housing temperature in case of fault | 110 °C                               |
| Temperature range at storage             | -25...85 °C                          |
| Permitted rel. humidity during operation | 5...85 % <sup>3)</sup>               |

<sup>1)</sup> -20...+50 °C @ 700/750/800/850/900 mA/-20...+45 °C @ 950/1000/1050mA

<sup>2)</sup> Maximum at the T<sub>c</sub>-point

<sup>3)</sup> Maximum 56 days/year at 85 %

### Lifespan

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

<sup>1)</sup> At maximum T<sub>c</sub> = 80°C / 10% failure rate

### Additional product data

|                 |               |
|-----------------|---------------|
| Encapsulated    | No            |
| Predecessor EAN | 4052899617155 |

### Capabilities

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

## Product datasheet

|                                       |           |
|---------------------------------------|-----------|
| <b>Programming interface</b>          | Dipswitch |
| <b>Control interface</b>              | DALI-2    |
| <b>Detection angle (Light sensor)</b> | -         |
| <b>Detection angle (PIR)</b>          | -         |
| <b>Number of channels</b>             | 1         |
| <b>DALI-2 Energy Data</b>             | -         |
| <b>DALI-2 Diagnostic Data</b>         | -         |

1) For maximum nominal output current

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

### Programming

|                               |                        |
|-------------------------------|------------------------|
| <b>Box programming</b>        | -                      |
| <b>Tuner4TRONIC</b>           | Yes                    |
| <b>Tuner4TRONIC Field App</b> | No                     |
| <b>Programming device</b>     | DALI magic / DIPswitch |

### Programmable features

|                               |     |
|-------------------------------|-----|
| <b>Constant Lumen</b>         | No  |
| <b>Lamp Operating Time</b>    | No  |
| <b>End of Life</b>            | No  |
| <b>Driver Guard</b>           | No  |
| <b>DALI Settings</b>          | Yes |
| <b>Emergency Mode</b>         | Yes |
| <b>DALI-2 Luminaire Data</b>  | -   |
| <b>Configuration Lock</b>     | Yes |
| <b>Soft Switch Off</b>        | No  |
| <b>Dim to Dark</b>            | No  |
| <b>TouchDIM + Sensor</b>      | Yes |
| <b>Corridor Functionality</b> | Yes |
| <b>OEM Key</b>                | -   |

### Certificates & standards

|                                  |   |
|----------------------------------|---|
| <b>Approval marks – approval</b> | CE / ENEC / EL / RCM / UKCA / CCC / KC / BIS <sup>1)</sup>  |
| <b>Standards</b>                 | 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 |
| <b>Protection class</b>          | II  |
| <b>Type of protection</b>        | IP20  |

1) In preparation

## Product datasheet







### Logistical data

|                |              |
|----------------|--------------|
| Commodity code | 850440839000 |
|----------------|--------------|

### Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) |  |
|---|--|
| Date of Declaration   | 22-11-2022   |
| Primary Article Identifier  | 4062172306256  |
| Candidate List Substance 1  | Lead   |
| 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                                      | be3927d7-050d-4994-a4d4-e36cd628fc30   |

### Download Data

| File  |  |
|---|--|
|  | User instruction<br>ICUTRONIC LED Power Supply             |
|  | Product Datasheet<br>Technical Datasheet IT DALI 42 CS     |
|  | Certificates<br>SG PSB LE 04172 CB of IT DALI CS-20220606  |
|  | Certificates<br>U6 084117 0120 ENEC of IT DALI CS 20220610 |
|  | Certificates<br>CCC of IT DALI 30 42 CS 9C1 4418206 EN     |
|  | Certificates<br>NSW28035 of IT DALI CS 9C1 4420862 EN 00   |

### 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.



## Product datasheet

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### Logistical Data

| Product code  | Product description         | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Volume               | Gross weight |
|---------------|-----------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4062172306256 | IT DALI 42/220...240/1A0 CS | Shipping carton box<br>20    | 228 mm x 208 mm x 78 mm              | 3.70 dm <sup>3</sup> | 2953.00 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.

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### Accessories Optional

| Product description         | Accessory name         | Accessory code  |
|-----------------------------|------------------------|-----------------|
| IT DALI 42/220...240/1A0 CS | OT CABLE CLAMP D-STYLE | ▶ 4062172345507 |

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### Data privacy

This OSRAM driver can be configured using the Tuner4TRONIC software. This requires registering on [www.myosram.com](http://www.myosram.com) and downloading the Tuner4TRONIC 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.

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### Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.