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

### IT DALI 12/220-240/300 CS (PHASE OUT)

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 Inventronics (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

### **Technical data**

### Electrical data

Nominal input voltage	220240 V				
Mains frequency	0/50/60 Hz				
Input voltage AC	198264 V <sup>1)</sup>				
Input voltage DC	176276 V				
Nominal input current at 230 V	0.077 A <sup>2)</sup>				
Total harmonic distortion	< 10 % <sup>3)</sup>				
Power factor λ	0.51C0.98				
Efficiency in full-load	81 % <sup>4)</sup>				
Device power loss	3.0 W <sup>5)</sup>				
Networked standby power	<0.50 W <sup>4)</sup>				
Inrush current	25 A <sup>6)</sup>				
Max. ECG no. on circuit breaker 10 A (B)	34				
Max. ECG no. on circuit breaker 16 A (B)	54				
Surge capability (L-N)	1 kV				
Surge capability (L/N-Ground)	2 kV				
Protective conductor current	<0.7 mA				
Nominal output voltage	942 V <sup>7</sup>				
U-OUT (working voltage)	60 V				
Nominal output current	90 mA / 100 mA / 120 mA / 150 mA / 180 mA / 200 mA / 250 mA / 300 mA				
Minimum output current	3 mA <sup>9)</sup>				
Default output current	300 mA				
Output current tolerance	±5 %				
Output ripple current (100 Hz)	< 5 % <sup>10)</sup>				
Output PSTLM	≤1				
Output SVM	≤0.4				
Nominal output power	0.812.6 W <sup>11)</sup>				
Maximum output power	12.6 W				
Galvanic isolation primary/secondary	SELV				
Galvanic isolation DALI/mains	Basic				
Galvanic isolation DALI/output	SELV				

1) Permitted voltage range

2) At full load, steady operation

3) At full load, 220...240 V, 50 Hz / see graphs

4) at 230 V, 50 Hz

5) Maximum / Full load, 230 Vac, 50Hz / 60Hz

6) t = 100  $\mu$ s (measured at 50 % I peak) 7) Maximum 60 V

8) Default current: 300 mA

9) At output voltage 30...42 V

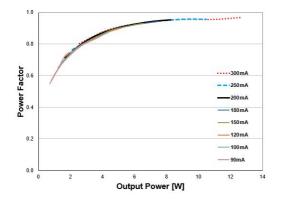
10) Ripple average at 100 Hz

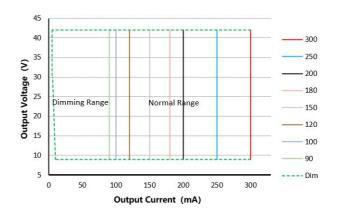
11) Partial load 0.8...12.6 W

### OSRAM Product - technical datasheet

### Typical Power Factor v Load

### Operating Window





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

6 8 Output Power [W]

IT DALI 12 220 240 300 CS Typical THD Vs Load

-----300mA

200mA

- 180 m A

– 150mA – 120mA

- 100mA

- 90mA

\*\*\*\*\*\*

12

10

IT DALI 12 220 240 300 CS Typical Operating Window

### Typical THD v Load

50

40

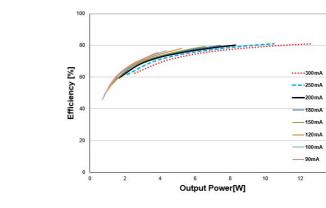
[%] OHL 20

10

0

2





IT DALI 12 220 240 300 CS Typical Efficiency Vs Load 230V 50Hz

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### **Dimensions & weight**



68.50 g			
130.0 mm			
30.0 mm			
22.2 mm			
116.0 mm			
0.751.5 mm <sup>2</sup> <sup>1)</sup>			
0.751.5 mm <sup>2 1)</sup>			
78 mm			
78 mm			
2000 mm			

1) Solid or flexible leads

### **Colors & materials**

Casing material	80% recycled plastic	
Product color	White	

### **Temperatures & operating conditions**

Ambient temperature range	-20+50 / -20+45 °C
Maximum temperature at tc test point	80 °C <sup>1)</sup>
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-2085 °C
Permitted rel. humidity during operation	585 % <sup>2)</sup>

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

Product - technical datasheet

Lifespan					
ECG lifetime	50000 h <sup>1)</sup>				
1) At maximum T <sub>c</sub> = 80°C / 10% failure rate					
C C					
Additional product data					
Encapsulated	No				
Capabilities					
Programming interface	Dipswitch, DALI				
Control interface	DALI-2, Touch DIM, Corridor				
Dimmable	Yes				
Dimming interface	DALI-2 / Touch DIM / Corridor				
Dimming range	1100 % <sup>1)</sup>				
Dimming method	Amplitude Modulation				
Constant lumen function	No				
Max. cable length to lamp/LED module	2.0 m <sup>2)</sup>				
Suitable for fixtures with prot. class	1/11				
Suitable for emergency lighting	Yes				
Type of connection, input side	Push terminal				
Type of connection, output side	Push terminal				
Suitable for through-wiring	No				
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) For maximum nominal output current

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

Product - technical datasheet

### Programming

Programming device	DALI / DIPswitch		
Tuner4TRONIC	Yes		
Tuner4TRONIC Field App	No		
Box programming	No		

#### Programmable features

Yes
Yes
Yes
No
No
No
Yes
No
Yes

#### Certificates & standards

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

#### Logistical data

Commodity code	85044083900

### **Environmental information**

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)				
Date of Declaration 26-02-2025				
Primary Article Identifier	4062172306218			
Declaration No. in SCIP database	In work			
SCIP_STATUS	In work			
SCIP_ID				

OSRAM Product - technical datasheet

### 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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### **Download Data**

File		
Certificates	PDF	► IT DALI CS CB SG PSB LE 05577 240124
Certificates	PDF	►IT DALI CS CB SG PSB LE 05578 240124
Certificates	PDF	►IT DALI CS ENEC 64142225005704 U6 310124
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 05 240125
Mandatory Publications	PDF	►IT DALI CS UK DoC 4414208 01 120623
User instruction	PDF	►UI IT DALI 12 CS

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172306218 OSRAM	IT DALI 12/220-240/300 CS	Shipping carton box 20 Pieces	396 x 162 x 67 mm	4.30 dm <sup>3</sup>	76.75 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 Inventronics driver can be configured using the Tuner4TRONIC software. This requires registering on www.inventronicsglobal.com/ds 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, Inventronics can read out operating data from devices for maintenance and service purposes even when a password key has been assigned. In individual cases, Inventronics 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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