

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

IT DALI 40/220-240/450 D LT2 L

ICUTRONIC Intelligent – DALI (non-isolated) | Linear constant current LED driver – Dimmable



Product family features

- Line frequency: 0 Hz | 50 Hz | 60 Hz
- Versatile scope of application due to output power range of up to 75 W
- Supply voltage: 220...240 V
- Available with output current range: up to 500 mA
- Non-isolated drivers

Product family benefits

- Versatile non-isolated DALI driver up to 100 W due to flexible output characteristic
- 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
- High quality of light thanks to <4% output ripple current
- High efficiency
- Low standby power consumption: < 0.25 W
- Fulfill safety requirement due to overload, overtemperature, Hot Plug protection

Areas of application

- Linear and area lighting
- Industry lighting
- Suitable for luminaires of protection class I

Technical data

Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V ¹⁾
Input voltage DC	176...276 V
Nominal input current at 230 V	0.25 A
Power factor λ	0.46C...0.97 ²⁾
Efficiency in full-load	92 % ³⁾
Device power loss	4.6 W ⁴⁾
Networked standby power	<0.25 W ³⁾
Inrush current	33.6 A ⁵⁾
Max. ECG no. on circuit breaker 10 A (B)	21
Max. ECG no. on circuit breaker 16 A (B)	33
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV ⁶⁾
Protective conductor current	<2.0 mA
Nominal output voltage	54...240 V ⁷⁾
U-OUT (working voltage)	250 V ⁸⁾
Nominal output current	100...450 mA
Minimum output current	100 mA
Default output current	100 mA
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 4 % ⁹⁾
Output PSTLM	<1
Output SVM	<0.4
Output current LEDset open	100 mA ¹⁰⁾
Output current LEDset shorted	450 mA
Nominal output power	5.4...40 W
Maximum output power	40 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) $t_h = 120 \mu s$

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

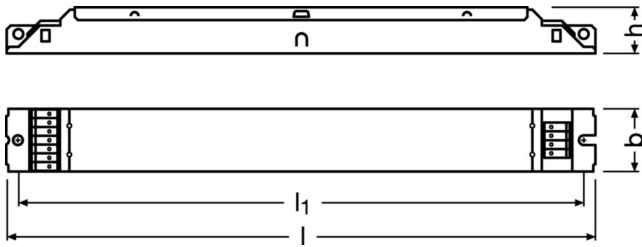
7) Maximum voltage ≤ 250 Vdc w/ Open Circuit

8) Maximum voltage, 1 hour maximum, unit might not operate in this abnormal condition

9) 100 Hz., low freq. ripple is negligible

10) LEDset vs LEDsetGND open

Dimensions & weight



Product weight	205.00 g
Length	280.0 mm
Width	30.0 mm
Height	21.0 mm
Mounting hole spacing, length	270.0 mm
Cable cross-section, input side	0.5...1.5 mm ² ¹⁾
Cable cross-section, output side	0.5...1.5 mm ² ¹⁾
Wire preparation length, input side	8.0...9.0 mm
Wire preparation length, output side	8.0...9.0 mm

1) Solid/ Flexible Leads

Colors & materials

Casing material	Metal
Product color	White

Temperatures & operating conditions

Ambient temperature range	-25...+60 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-40...+85 °C
Permitted rel. humidity during operation	5...85 % ¹⁾
Permitted relative humidity at storage	5...85 %

1) Maximum 56 days/year at 85 %

Lifespan

ECG lifetime	50000 h / 100000 h ¹⁾
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1) $T_c = 75^\circ\text{C}$, 0.2% / 1,000 h failure rate / $T_c = 65^\circ\text{C}$, 0.1% / 1,000 h failure rate / 24H ON

Capabilities

Programming interface	Rset
Control interface	DALI-2
Dimmable	Yes
Dimming interface	DALI-2 / Corridor / Touch DIM
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 ¹⁾
Suitable for fixtures with prot. class	I
Suitable for emergency lighting	Yes
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
Box programming	No

Programmable features

DALI Settings	Yes
DALI-2 Luminaire Data	No
Dim to Dark	No
Driver Guard	Yes
Emergency Mode	Yes

Certificates & standards

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

1) In preparation

Logistical data

Commodity code	85044083900
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Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	26-02-2025
Primary Article Identifier	4062172380096 6977770436381
Declaration No. in SCIP database	In work
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.

Download Data

File		
Certificates	PDF	▶ OT ENEC 40038085 230824
Certificates	PDF	▶ CCC_2023171002005108 IT DALI 220- 40 D LT2 L
CAD data 3-dim	Compressed	▶ IT DALI D LT2 L CAD3PDF 090824
Product Datasheet	PDF	▶ IT DALI 40 D LT2 L DS 050824
CAD data 2-dim	Compressed	▶ IT DALI D LT2 L CAD2PDF 090824
CAD data	Compressed	▶ IT DALI D LT2 L STEP 090824
Mandatory Publications	PDF	▶ IT DALI D LT2 L CE 4511886 01 240524
Mandatory Publications	PDF	▶ IT DALI D LT2 L UK DoC 4511888 201123
User instruction	PDF	▶ UI IT DALI 220 240 D LT2 L

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172380096	IT DALI 40/220-240/450 D LT2 L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm ³	211.35 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.