

ETi DALI 25/220-240/300 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 75 W due to flexible output characteristic
- Fully programmable via software (DALI Interface)
- Flexible current setting (RSet)
- Lifetime: up to 100,000 h (temperature at $T_c = 65\text{ }^\circ\text{C}$, max. 10 % failure rate)
- High-quality dimming of 10...100 % by amplitude dimming
- No TouchDIM nor Corridor Function
- 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

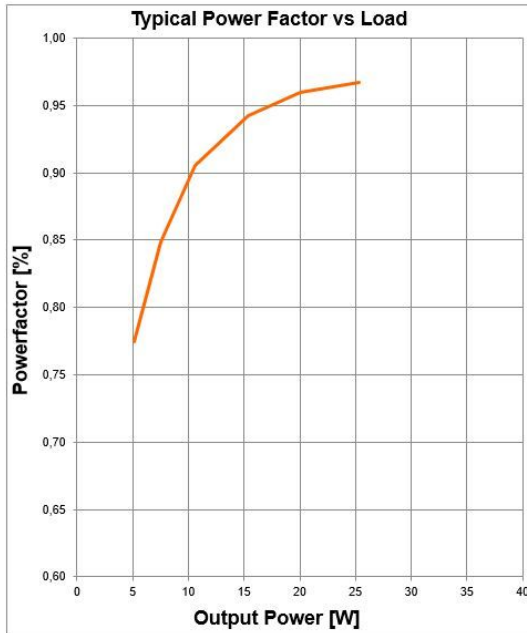
- Linear and area lighting
- Industry lighting
- Suitable for luminaires of protection class I

Technical data

Electrical data

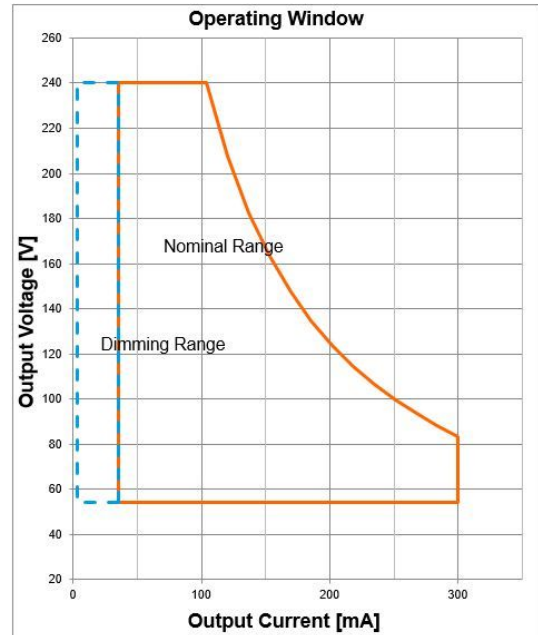
Device power loss	2.0 W
Nominal output voltage	54...240 V
Input voltage DC	176...276 V
Nominal output current	35...300 mA
Inrush current	≤ 28 A
Max. ECG no. on circuit breaker 10 A (B)	18
Max. ECG no. on circuit breaker 16 A (B)	30
Nominal output power	3...25 W
Input voltage AC	198...264 V
Power factor λ	0.31C...0.95
U-OUT (working voltage)	< 250 V
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
Mains frequency	0/50/60 Hz
Nominal input voltage	220...240 V
Total harmonic distortion	< 10 %
Output current tolerance	±5 %
Maximum output power	25 W
Galvanic isolation	Non isolated
Output ripple current (100 Hz)	< 4 %
Current set	DALI / Rset / Programmable

Typical Power Factor v Load



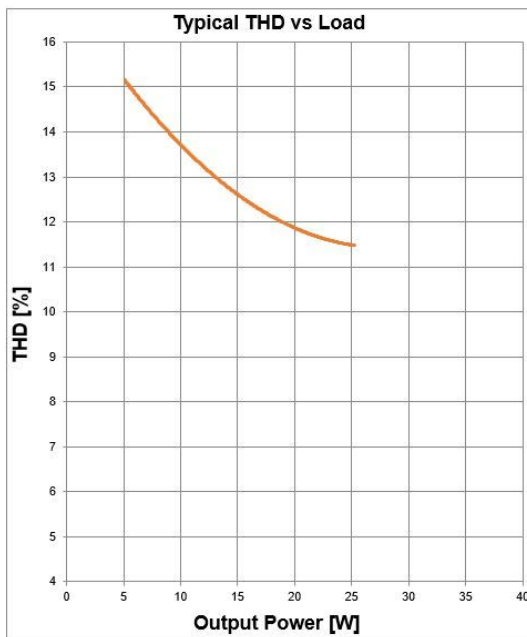
Typical Power Factor vs. Load ETI DALI 25/220-240/300 D LT2 L

Operating Window



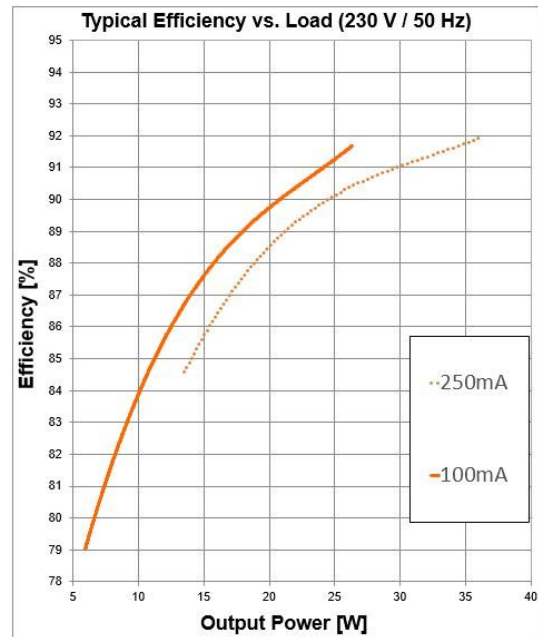
Operating Window ETI DALI 25/220-240/300 D LT2 L

Typical THD v Load



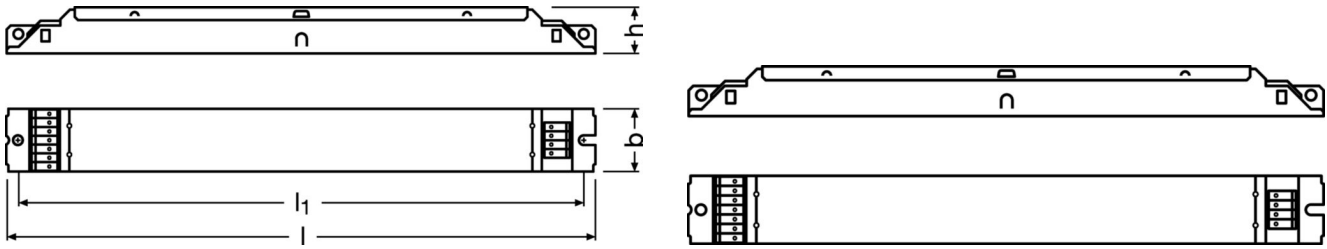
Typical THD Vs Load ETI DALI 25/220-240/300 D LT2 L

Typical Efficiency v Load 230 V 50 Hz



Typical Efficiency vs. Load (230 V / 50 Hz) ETI DALI 25/220-240/300 D LT2 L

Dimensions & weight



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

Colors & materials

Casing material	Metal
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Temperatures & operating conditions

Max.housing temperature in case of fault	110 °C
Maximum temperature at tc test point	75 °C
Ambient temperature range	-25...+50 °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
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Capabilities

Max. cable length to lamp/LED module	2.0 m ¹⁾
Dimming range	10...100 %
Dimming method	Full analogue dimming
Dimming interface	DALI-2
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
No-load proof	Yes
Type of connection, input side	Push terminal
Type of connection, output side	Push terminal
Constant lumen function	Programmable
Programming interface	Rset

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

Programmable features

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

Certificates & standards

Standards	Acc. to IEC 61347 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 / Acc. to IEC 62386 / Acc. to IEC 61000-3-2 / Acc. to IEC 61000-3-3 / Acc. to IEC 61547
Approval marks – approval	CE / EL / ENEC 05 / EAC / CCC / BIS / RCM
Type of protection	IP20

Logistical data

Commodity code	85044083900
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Download Data

File		
Certificates	PDF	▶ EATON(CEAG)-Conformity declaration AM28129 ETI DALI 25/220-240/300 D LT2 L
Certificates	PDF	▶ INOTEC-Conformity declaration AM28129 ETI DALI 25/220-240/300 D LT2 L
Certificates	PDF	▶ OT ENEC 40038085 111023
CAD data 3-dim	Compressed	▶ ETI DALI D LT2 L CAD3PDF 270220
CAD data 2-dim	Compressed	▶ ETI DALI D LT2 L CAD2PDF 270220
CAD data	Compressed	▶ ETI DALI D LT2 L IGS 270220
CAD data	Compressed	▶ ETI DALI D LT2 L STEP 270220
Mandatory Publications	PDF	▶ ETI DALI D LT2 L CE 3971160 05 040523
Mandatory Publications	PDF	▶ ETI DALI D LT2 L UK DoC 4281296 01 090823
User instruction	PDF	▶ ICUTRONIC INTELLIGENT 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.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172053280	ETi DALI 25/220-240/300 D LT2 L	Shipping carton box 20 Pieces	303 x 159 x 105 mm	5.06 dm ³	127.00 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

Disclaimer

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