

ICUTRONIC Intelligent – DALI (non-isolated)

Linear constant current LED driver – Dimmable



Areas of application

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

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



Product family datasheet

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 datasheet

Technical data

Electrical data

Product description	Nominal input voltage	Mains frequency	Input voltage AC	Input voltage DC	Current set
ETi DALI 25/220...240/300 D LT2 L	220...240 V	0/50/60 Hz	198...264 V	176...276 V	DALI / Rset / Programmable
ETi DALI 35/220...240/400 D LT2 L	220...240 V	0/50/60 Hz	198...264 V	176...276 V	DALI / Rset / Programmable
ETi DALI 75/220...240/500 D LT2 L	220...240 V	0/50/60 Hz	198...264 V	176...276 V	DALI / Rset / Programmable

Product description	Total harmonic distortion	Power factor λ	Efficiency in full-load	Device power loss
ETi DALI 25/220...240/300 D LT2 L	< 10 %	> 0.95	90 % ¹⁾	2.0 W
ETi DALI 35/220...240/400 D LT2 L	< 10 %	> 0.95	92 % ¹⁾	3.0 W
ETi DALI 75/220...240/500 D LT2 L	< 10 %	> 0.95	94 % ¹⁾	6.0 W

Product description	Networked standby power	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 16 A (C)
ETi DALI 25/220...240/300 D LT2 L	< 0.30 W ¹⁾	≤ 28 A	18	-	-
ETi DALI 35/220...240/400 D LT2 L	< 0.30 W ¹⁾	≤ 28 A	18	-	-
ETi DALI 75/220...240/500 D LT2 L	< 0.30 W ¹⁾	≤ 34 A	15	-	-

Product description	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	Surge capability (L/N-Ground)	Surge capability (L-N)
ETi DALI 25/220...240/300 D LT2 L	30	-	2 kV	1 kV
ETi DALI 35/220...240/400 D LT2 L	30	-	2 kV	1 kV
ETi DALI 75/220...240/500 D LT2 L	25	-	2 kV	1 kV

Product description	Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current LEDset open
ETi DALI 25/220...240/300 D LT2 L	54...240 V	< 250 V	35...300 mA	15 mA
ETi DALI 35/220...240/400 D LT2 L	54...240 V	< 250 V	75...400 mA	35 mA
ETi DALI 75/220...240/500 D LT2 L	54...240 V	< 250 V	125...500 mA	60 mA

Product description	Output current LEDset shorted	Default output current	Output current tolerance
ETi DALI 25/220...240/300 D LT2 L	35 mA	15 mA ²⁾	±5 %
ETi DALI 35/220...240/400 D LT2 L	75 mA	35 mA ²⁾	±5 %
ETi DALI 75/220...240/500 D LT2 L	125 mA	60 mA ²⁾	±5 %

Product family datasheet

Product description	Output ripple current (100 Hz)	Output PSTLM	Output SVM	Nominal output power
ETi DALI 25/220...240/300 D LT2 L	< 4 %	≤1	≤0.4	3...25 W
ETi DALI 35/220...240/400 D LT2 L	< 4 %	≤1	≤0.4	4...35 W
ETi DALI 75/220...240/500 D LT2 L	< 4 %	≤1	≤0.4	8.0...75 W

Product description	Maximum output power	Galvanic isolation
ETi DALI 25/220...240/300 D LT2 L	25 W	Non isolated
ETi DALI 35/220...240/400 D LT2 L	35 W	Non isolated
ETi DALI 75/220...240/500 D LT2 L	75 W	Non isolated

1) at 230 V, 50 Hz

2) LEDset deactivated

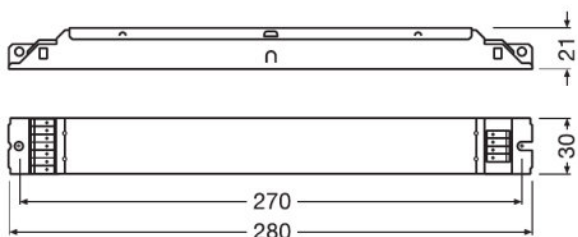
Dimensions & weight

Product description	Mounting hole spacing, length	Product weight	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side
ETi DALI 25/220...240/300 D LT2 L	270.0 mm	205.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²	8.0...9.0 mm
ETi DALI 35/220...240/400 D LT2 L	270.0 mm	205.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²	8.0...9.0 mm
ETi DALI 75/220...240/500 D LT2 L	270.0 mm	205.00 g	0.5...1.5 mm ²	0.5...1.5 mm ²	8.0...9.0 mm

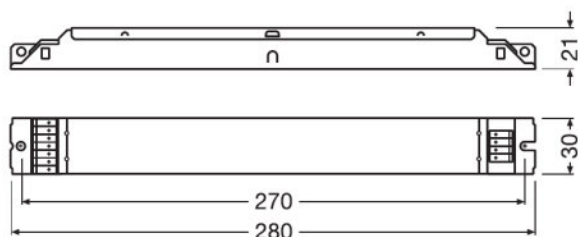
Product description	Wire preparation length, output side	Height	Width	Length
ETi DALI 25/220...240/300 D LT2 L	8.0...9.0 mm	21.0 mm	30.0 mm	280.0 mm
ETi DALI 35/220...240/400 D LT2 L	8.0...9.0 mm	21.0 mm	30.0 mm	280.0 mm
ETi DALI 75/220...240/500 D LT2 L	8.0...9.0 mm	21.0 mm	30.0 mm	280.0 mm

Product family datasheet

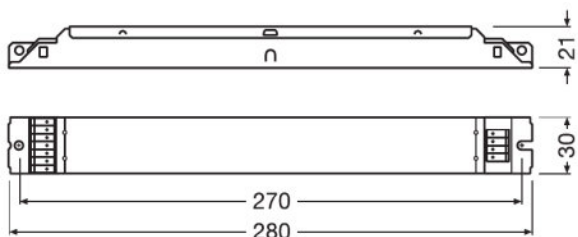
Product line drawing



ETi DALI 25/220...240/300 D LT2 L



ETi DALI 35/220...240/400 D LT2 L



ETi DALI 75/220...240/500 D LT2 L

Product family datasheet

Colors & materials

Product description	Casing material
ETi DALI 25/220...240/300 D LT2 L	Metal
ETi DALI 35/220...240/400 D LT2 L	Metal
ETi DALI 75/220...240/500 D LT2 L	Metal

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Temperature range at storage
ETi DALI 25/220...240/300 D LT2 L	-25...+50 °C	75 °C	110 °C	-40...+85 °C
ETi DALI 35/220...240/400 D LT2 L	-25...+50 °C	75 °C	110 °C	-40...+85 °C
ETi DALI 75/220...240/500 D LT2 L	-25...+50 °C	75 °C	110 °C	-40...+85 °C

Product description	Permitted rel. humidity during operation
ETi DALI 25/220...240/300 D LT2 L	5...85 % ¹⁾
ETi DALI 35/220...240/400 D LT2 L	5...85 % ¹⁾
ETi DALI 75/220...240/500 D LT2 L	5...85 % ¹⁾

¹⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
ETi DALI 25/220...240/300 D LT2 L	50000 / 100000 h
ETi DALI 35/220...240/400 D LT2 L	50000 / 100000 h
ETi DALI 75/220...240/500 D LT2 L	50000 / 100000 h

Capabilities

Product description	Programming interface	Dimmable	Dimming interface	Dimming range
ETi DALI 25/220...240/300 D LT2 L	Rset	Yes	DALI-2	10...100 %
ETi DALI 35/220...240/400 D LT2 L	Rset	Yes	DALI-2	10...100 %
ETi DALI 75/220...240/500 D LT2 L	Rset	Yes	DALI-2	10...100 %

Product description	Dimming method	Overheating protection	Overload protection
ETi DALI 25/220...240/300 D LT2 L	Full analogue dimming	Automatic reversible	Automatic reversible
ETi DALI 35/220...240/400 D LT2 L	Full analogue dimming	Automatic reversible	Automatic reversible
ETi DALI 75/220...240/500 D LT2 L	Full analogue dimming	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
ETi DALI 25/220...240/300 D LT2 L	Automatic reversible	Yes	No	2.0 m

Product family datasheet

Product description	Short-circuit protection	No-load proof	Intended for no-load operation	Max. cable length to lamp/LED module
ETi DALI 35/220...240/400 D LT2 L	Automatic reversible	Yes	No	2.0 m
ETi DALI 75/220...240/500 D LT2 L	Automatic reversible	Yes	No	2.0 m

Product description	Suitable for fixtures with prot. class	Type of connection, input side	Type of connection, output side
ETi DALI 25/220...240/300 D LT2 L	I	Push terminal	Push terminal
ETi DALI 35/220...240/400 D LT2 L	I	Push terminal	Push terminal
ETi DALI 75/220...240/500 D LT2 L	I	Push terminal	Push terminal

Product description	Number of channels	DALI-2 Energy Data	DALI-2 Diagnostic Data
ETi DALI 25/220...240/300 D LT2 L	1	No	No
ETi DALI 35/220...240/400 D LT2 L	1	No	No
ETi DALI 75/220...240/500 D LT2 L	1	No	No

Programming

Product description	Programming device	Tuner4TRONIC Field App
ETi DALI 25/220...240/300 D LT2 L	DALI magic	Yes
ETi DALI 35/220...240/400 D LT2 L	DALI magic	Yes
ETi DALI 75/220...240/500 D LT2 L	DALI magic	Yes

Programmable features

Product description	DALI-2 Luminaire Data
ETi DALI 25/220...240/300 D LT2 L	No
ETi DALI 35/220...240/400 D LT2 L	No
ETi DALI 75/220...240/500 D LT2 L	No

Product family datasheet

Certificates & standards

Product description	Approval marks – approval	Standards	Type of protection
ETi DALI 25/220...240/300 D LT2 L	CE / EL / ENEC 05 / EAC / CCC / BIS / RCM	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	IP20
ETi DALI 35/220...240/400 D LT2 L	CE / EL / ENEC 05 / EAC / CCC / BIS / RCM	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	IP20
ETi DALI 75/220...240/500 D LT2 L	CE / EL / ENEC 05 / EAC / CCC / BIS / RCM	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	IP20

Logistical data

Product description	Commodity code
ETi DALI 25/220...240/300 D LT2 L	850440829000
ETi DALI 35/220...240/400 D LT2 L	850440829000
ETi DALI 75/220...240/500 D LT2 L	850440829000

Environmental information

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
ETi DALI 25/220...240/300 D LT2 L	10-11-2021	4062172053280	Lead
ETi DALI 35/220...240/400 D LT2 L	10-11-2021	4062172053303	Lead
ETi DALI 75/220...240/500 D LT2 L	10-11-2021	4062172053327	Lead

Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
ETi DALI 25/220...240/300 D LT2 L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	efabdc2f-904f-424e-aac2-2f7dd58bdb89
ETi DALI 35/220...240/400 D LT2 L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	14b55924-8133-43e0-b690-987bee373821
ETi DALI 75/220...240/500 D LT2 L	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	e8329bff-c71b-40c9-b897-666b9a616102

Product family datasheet















Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

	File
	User instruction ICUTRONIC INTELLIGENT LED Power Supply
	Certificates EATON(CEAG)-Conformity declaration AM28129 ETI DALI 25220-240300 D LT2 L
	Certificates INOTEC-Conformity declaration AM28129 ETI DALI 25220-240300 D LT2 L
	Certificates OT ENEC 40038085 130720
	Declarations of conformity ETI DALI D LT2 L CE 3971160 190821
	Declarations of conformity ETi DALI D LT2 L UK DoC 4281296 180221
	CAD data ETI DALI D LT2 L IGS 270220
	CAD data ETI DALI D LT2 L STEP 270220
	CAD Data 2-dim ETI DALI D LT2 L CAD2PDF 270220
	CAD data 3-dim ETI DALI D LT2 L CAD3PDF 270220
	Certificates EATON(CEAG)-Conformity declaration AM28155 ETI DALI 35220-240400 D LT2 L
	Certificates INOTEC-Conformity declaration AM28155 ETI DALI 35220-240400 D LT2 L
	Certificates EATON(CEAG)-Conformity declaration AM28130 ETI DALI 75220-240500 D LT2 L
	Certificates INOTEC-Conformity declaration AM28130 ETI DALI 75220-240500 D LT2 L

Product family 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.

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	303 mm x 159 mm x 105 mm	5.06 dm ³	4227.00 g
4062172053303	ETi DALI 35/220...240/400 D LT2 L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm ³	4227.00 g
4062172053327	ETi DALI 75/220...240/500 D LT2 L	Shipping carton box 20	303 mm x 159 mm x 105 mm	5.06 dm ³	4227.00 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.