

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 $T_c = 65\text{ °C}$, 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	
Product description	Total harmonic distortion	Power factor λ	Efficiency in full-load		Device power loss	Inrush current
ETi DALI 25/220...240/300 D LT2 L	< 10 %	0.31C...0.95	90 % ¹⁾		2.0 W	≤ 28 A
ETi DALI 35/220...240/400 D LT2 L	< 10 %	0.46C...0.97	92 % ¹⁾		3.0 W	≤ 28 A
Product description	Max. ECG no. on circuit breaker 10 A (C)	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 16 A (C)	Max. ECG no. on circuit breaker 25 A (B)	
ETi DALI 25/220...240/300 D LT2 L	-	18	30	-	-	
ETi DALI 35/220...240/400 D LT2 L	-	18	30	-	-	
Product description	Surge capability (L/N-Ground)		Surge capability (L-N)	Nominal output voltage	U-OUT (working voltage)	Nominal output current
ETi DALI 25/220...240/300 D LT2 L	2 kV		1 kV	54...240 V	< 250 V	35...300 mA
ETi DALI 35/220...240/400 D LT2 L	2 kV		1 kV	54...240 V	< 250 V	75...400 mA
Product description	Output current LEDset open		Output current LEDset shorted	Default output current		
ETi DALI 25/220...240/300 D LT2 L	15 mA		35 mA	15 mA ²⁾		
ETi DALI 35/220...240/400 D LT2 L	35 mA		75 mA	35 mA ²⁾		
Product description	Output current tolerance	Output ripple current (100 Hz)		Output PSTLM		
ETi DALI 25/220...240/300 D LT2 L	±5 %	< 4 %		≤1		
ETi DALI 35/220...240/400 D LT2 L	±5 %	< 4 %		≤1		
Product description	Output SVM		Nominal output power	Maximum output power	Galvanic isolation	
ETi DALI 25/220...240/300 D LT2 L	≤0.4		3...25 W	25 W	Non isolated	
ETi DALI 35/220...240/400 D LT2 L	≤0.4		4...35 W	35 W	Non isolated	
Product description	Power loss in stand-by mode					
ETi DALI 25/220...240/300 D LT2 L	<0.25 W					

Product family datasheet

Product description	Power loss in stand-by mode
ETi DALI 35/220...240/400 D LT2 L	<0.25 W

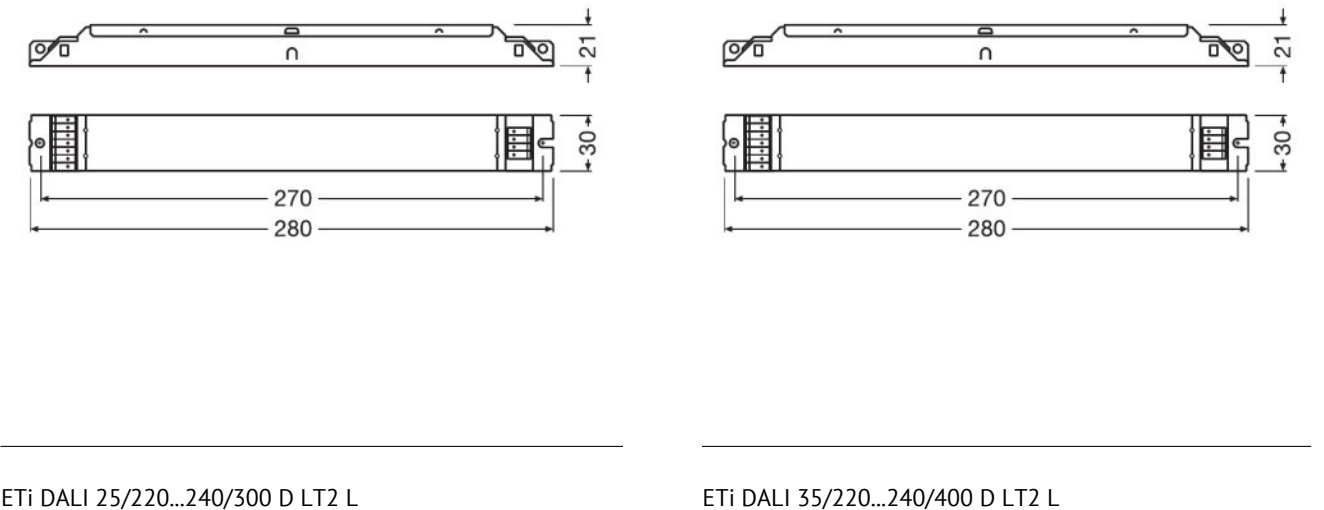
1) at 230 V, 50 Hz
2) LEDset deactivated

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

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

Product line drawing



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

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

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⁾

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

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 %

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

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 ¹⁾
ETi DALI 35/220...240/400 D LT2 L	Automatic reversible	Yes	No	2.0 m ¹⁾

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

Product family datasheet

Product description	Constant lumen function	Number of channels	DALI-2 Energy Data
ETi DALI 25/220...240/300 D LT2 L	Programmable	1	No
ETi DALI 35/220...240/400 D LT2 L	Programmable	1	No

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

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

Programming

Product description	Programming device
ETi DALI 25/220...240/300 D LT2 L	DALI magic
ETi DALI 35/220...240/400 D LT2 L	DALI magic

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

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

Logistical data

Product description	Commodity code
ETi DALI 25/220...240/300 D LT2 L	85044083900
ETi DALI 35/220...240/400 D LT2 L	85044083900

Product family datasheet

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
ETi DALI 25/220...240/300 D LT2 L	20-11-2023	4062172053280	Lead
ETi DALI 35/220...240/400 D LT2 L	20-11-2023	4062172053303	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.	82a4603a-3d58-43dd-bdda-df733f04bb97
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.	849d6891-f6a3-48fb-ac7f-435b5f015481

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 010322
	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

Product family datasheet

	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

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

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.