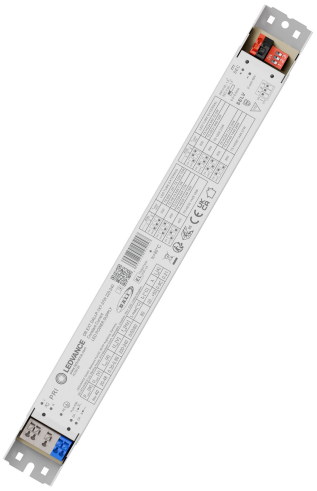
PRODUCT DATASHEET
DR EXTERNAL DALI -1X7-37W 220-240

LED DRIVER LED TUBE EXTERNAL DALI | Constant current LED DRIVER EXTERNAL for LED TUBE EXTERNAL T5/T8



PERFOR-
MANCE
CLASS

Areas of application

- Suitable for luminaires of protection class I
- General illumination within ambient temperatures from -20…+50 °C
- Linear lighting for office, education, storage areas and retail
- Industrial lighting (e.g. manufacturing plants, logistic centers, warehouses)
- Shops, supermarkets

Product benefits

- Multiwatt LED driver for LED TUBE EXTERNAL T5 and T8
- DALI 2.0 interface for dimming and sensor operations
- Push DIM application for easy control
- 5 years guarantee

Product features

- Flexibility due to adjustable output currents via dip switch
- Quality dimming of 1…100 %
- Safety extra-low voltage (SELV) driver
- Lifetime 100,000 h (for Tc = 65 °C)
- ENEC-certified safety
- High resistance to switching loads



© 2025, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

Electrical data

Nominal wattage	46.00 W
Nominal output power	40 W [1)]
Nominal voltage	220…240 V
Nominal output voltage	20…48 V [2)]
Input voltage range	220…240 V
Input voltage AC	198…264 V [3)]
Input voltage DC	180…270 V
U-OUT (working voltage)	60 V
Type of current	DC
Nominal current	0.21 A
Nominal output current	0.35…0.86 A [4)]
Inrush current	20 A [5)]
Output current tolerance	10 %
Output ripple current (100 Hz)	≤ 5 %
Mains frequency	0/50/60 Hz
Total harmonic distortion	< 20 % [6)]
Power factor λ	0.95 [7)]
ECG efficiency	86 % [8)]
Device power loss	6 W [9)]
Max. ECG no. on circuit breaker 10 A (B)	16
Max. ECG no. on circuit breaker 16 A (B)	26
Max. ECG no. on circuit breaker 25 A (B)	42
Surge capability (L/N-Ground)	2 kV
Surge capability (L-N)	1 kV
Galvanic isolation	SELV
Operating frequency	0/50/60 Hz
Power loss in stand-by mode	< 0.5 W

1) Partial load 7…38.7 W

2) Within rated power

3) Permitted voltage range

4) ±5%

5) t_{width} = 200 µs (measured at 50 % I_{peak})

© 2025, LEDVANCE GmbH. All rights reserved.

6) At full load, 220…240 V, 50 Hz

7) Full load at 230 V

8) At full load and 230 V

9) At maximum LED load of 40 W

Dimensions & Weight



Length	284.00 mm
Mounting hole spacing, length	274 mm
Width	31.00 mm
Height	21.00 mm
Cable cross-section, input side	0.5…1.5 mm^2
Cable cross-section, output side	0.5…1.5 mm^2
Prewired	No
Wire preparation length, input side	8…9 mm
Wire preparation length, output side	8…9 mm
Product weight	225.00 g

Colors & materials

Product color	White
Casing material	Metal / SGCC
Body material	Metal

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C 1)
Maximum temperature at tc test point	80 °C
Max.housing temperature in case of fault	110 °C
Temperature range in operation	-20…+50 °C
Permitted rel. humidity during operation	10…85 % 2)

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

2) Maximum 42 days/year at 93 %

Lifespan

© 2025, LEDVANCE GmbH. All rights reserved.

ECG lifetime	100000 h [1)]

1) At T_c = 65 °C / 10 % failure rate

Additional product data

Encapsulated	Yes

Capabilities

Dimmable	Yes
Dimming interface	DALI-2 / Push DIM
Dimming range	1…100 %
Overheating protection	Yes
Overload protection	Yes
Short-circuit protection	Yes
Max. cable length to lamp/LED module	2,0 m
Suitable for fixtures with prot. class	I,II
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

Certificates & Standards

Approval marks – approval	CE / CB / ENEC / UKCA / EL
Standards	Acc. to EN 61347-1 / Acc. to ENEC 61347-2-13 / Acc. to EN 62384 / Acc. to EN 55015 / Acc. to EN 61000-3-2 / Acc. to EN 61547
Protection class	I
Type of protection	IP20

LOGISTICAL DATA

Temperature range at storage	-20…+80 °C

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Disconnect mains before installation.
- Do not open enclosure-housing.

DOWNLOAD DATA

© 2025, LEDVANCE GmbH. All rights reserved.

	Documents and certificates	Document name
PDF	User instruction / safety instructions	DR EXT DALI-P
PDF	Addon technical information	EATON Compatibility declaration DR EXT DALI-P-1X7-37W 220-240
PDF	Addon technical information	INOTEC Compatibility declaration DR EXT DALI-P-1X7-37W 220-240
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	EXT DALI Driver
PDF	Declarations of conformity UKCA	EXT DALI Driver
PDF	EU Data Act	DALI LED Driver and Luminaires

	Tender texts	Document name
TXT	Tender documents	LED DRIVER LED TUBE EXTERNAL DALI P 1X7 37W 220 240-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854295157	Folding box 1	295 mm x 41 mm x 33 mm	259.00 g	0.39 dm^3
4099854295164	Shipping box 25	325 mm x 230 mm x 189 mm	6825.00 g	14.13 dm^3

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.

References / Links

– For current information see www.ledvance.com/ledtube

DISCLAIMER

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

© 2025, LEDVANCE GmbH. All rights reserved.