

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



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



TECHNICAL DATA

Electrical data

Nominal wattage	46.00 W
Nominal output power	40 W ¹⁾
Nominal voltage	220240 V
Nominal output voltage	2048 V ²⁾
Input voltage range	220240 V
Input voltage AC	198264 V ³⁾
Input voltage DC	180270 V
U-OUT (working voltage)	60 V
Type of current	DC
Nominal current	0.21 A
Nominal output current	0.350.86 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⁾ $_{\pm5\%}$

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

- 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	0.51.5 mm ²
Cable cross-section, output side	0.51.5 mm ²
Prewired	No
Wire preparation length, input side	89 mm
Wire preparation length, output side	89 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	1085 % ²⁾

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

Lifespan

²⁾ Maximum 42 days/year at 93 %

ECG lifetime	100000 h ¹⁾
--------------	------------------------

¹⁾ At $T_c = 65 \,^{\circ}\text{C} / 10 \,^{\circ}\text{M}$ failure rate

Additional product data

Encapsulated	Yes
·	

Capabilities

Dimmable	Yes
Dimming interface	DALI-2 / Push-DIM
Dimming range	1100 %
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	1,11
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	1		
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

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