

# PRODUCT DATASHEET DR DALI-P -42/220-240/1A0 OEM

LED DRIVER DALI PERFORMANCE GEN 3 | Compact constant LED driver with DALI dimming interface



#### Areas of application

- Luminaires of protection class I and II
- Indoor SELV installations
- Suitable for LED T5 FC EXTERNAL P
- Emergency lighting systems (DC capable)
- Cove lighting
- Offices
- Education
- Storage areas

#### Product benefits

- Flexible dip switch current settings on device in 50mA steps
- DALI-2 certified incl. Parts 251, 252, 253
- Push DIM application for easy control
- Low flickering enables high light quality as well as good visual comfort
- High-quality dimming of 1...100 %
- Toolless installation

#### Product features

- 1 channel DALI-2 certified LED driver
- Available with output current range: from 150...1,050 mA
- Type of installation: independent and built-in
- Suitable for emergency lighting fixtures acc. to EN 60598-2-2 with emergency output factor EOFI=15%
- Quick and easy current setting via Dip-Switch
- Very long lifetime: up to 100,000 h
- Supply voltage: 220...240 V
- Operated with Safety extra-low voltage (SELV): < 60 V

## **TECHNICAL DATA**

## Electrical data

Nominal output power	42 W
Nominal voltage	220240 V
Nominal output voltage	2.549 V
Input voltage AC	198264 V <sup>1)</sup>
Input voltage DC	198264 V
U-OUT (working voltage)	60 V
Type of current	DC
Nominal current	270 mA
Nominal output current	300 mA / 350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / 650 mA / 700 mA / 750 mA / 800 mA / 850 mA / 900 mA / 950 mA / 1000 mA / 1050 mA <sup>2)</sup>
Inrush current	5.32 A
Output current tolerance	+/- 5 %
Output ripple current (120 Hz)	+/- 3.0 %
Mains frequency	0/50/60 Hz
Total harmonic distortion	< 5 % <sup>3)</sup>
Power factor $\lambda$	> 0.95 <sup>3)</sup>
ECG efficiency	89 %
Device power loss	5.19 W
Max. ECG no. on circuit breaker 10 A (B)	29
Max. ECG no. on circuit breaker 16 A (B)	47
Max. ECG no. on circuit breaker 25 A (B)	74
Max. ECG no. on circuit breaker 32 A (B)	94
Max. ECG no. on circuit breaker 10 A (C)	29
Max. ECG no. on circuit breaker 16 A (C)	47
Max. ECG no. on circuit breaker 25 A (C)	74
Max. ECG no. on circuit breaker 32 A (C)	94
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	≤0.3 W

<sup>1)</sup> Permitted voltage range

# Dimensions & Weight

<sup>2) &</sup>lt;sub>+/- 5 %</sub>

<sup>3)</sup> Full load at 230 V/50 Hz



Length	105.00 mm
Mounting hole spacing, length	97,0 mm
Width	45.00 mm
Height	25.00 mm
Cable cross-section, input side	0.51.5 mm <sup>2</sup>
Cable cross-section, output side	0.51.5 mm <sup>2</sup>
Prewired	No
Wire preparation length, input side	79 mm
Wire preparation length, output side	79 mm
Product weight	128.00 g

## Colors & materials

Product color	White
Casing material	Plastic
Body material	Plastic

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at to test point	85 °C
Max.housing temperature in case of fault	<110 °C
Temperature range in operation	-20+45 °C
Permitted rel. humidity during operation	2090 %

# Lifespan

ECG lifetime	100000 h <sup>1)</sup>
Number of switching cycles	60000

<sup>1)</sup> At Tc max. - 10°C

## Additional product data

Encapsulated Yes
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# Capabilities

Dimmable	Yes
Dimming interface	DALI-2
Dimming range	1100 %
Overheating protection	Yes
Overload protection	Yes
No-load proof	Yes
Short-circuit protection	Yes
Max. cable length to lamp/LED module	0,8 m
Suitable for fixtures with prot. class	1711
Suitable for emergency lighting	Yes
Type of connection, output side	Push terminal

#### Certificates & Standards

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

## LOGISTICAL DATA

Temperature range at storage	-20+80 °C
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## **Accessories Optional**

Product image	Product name	EAN
	DR AY DALI-P CLAMP DUO	4099854400605

#### **EQUIPMENT / ACCESSORIES**

- Cable clamps for independent operation

## Safety advice

- 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
PDF	User instruction / safety instructions	DR DALI P
POF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	Safety Insert G11205865
PDF	Declarations of conformity	DR_AY DALI-P_CLAMP DUO
PDF	Declarations of conformity UKCA	DR AY_DALI-P_CLAMP DUO
PDF	EU Data Act	DALI LED Driver and Luminaires
PDF	EU Data Act	Field Assistant - NFC Progam Application

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075845428	Unpacked 1	105 mm x 45 mm x 25 mm	128.00 g	0.12 dm <sup>3</sup>
4058075845435	Shipping box 20	277 mm x 255 mm x 105 mm	2810.00 g	7.42 dm <sup>3</sup>

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 Guarantee see www.ledvance.com/guarantee

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