

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

## 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 power42 WNominal voltage220240Nominal output voltage2.549 VInput voltage AC198264Input voltage DC198264U-OUT (working voltage)60 VType of currentDC	V	
Nominal output voltage2.549 VInput voltage AC198264Input voltage DC198264U-OUT (working voltage)60 V	V	
Input voltage AC 198264   Input voltage DC 198264   U-OUT (working voltage) 60 V		
Input voltage DC 198264   U-OUT (working voltage) 60 V	2.549 V	
U-OUT (working voltage) 60 V	V 1)	
	V	
Type of current DC		
Nominal current 270 mA		
Nominal output current 650 mA / 7	350 mA / 400 mA / 450 mA / 500 mA / 550 mA / 600 mA / '00 mA / 750 mA / 800 mA / 850 mA / 900 mA / 950 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	2	
Total harmonic distortion < 5 % <sup>3</sup>	< 5 % <sup>3)</sup>	
Power factor $\lambda$ > 0.95 <sup>3</sup> )	> 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	2	
Power loss in stand-by mode ≤0.3 W		

1) Permitted voltage range

2) <sub>+/- 5 %</sub>

3) Full load at 230 V/50 Hz

## **Dimensions & Weight**



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 tc 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

1) At Tc max. - 10°C

## Additional product data

Encapsulated

## 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	11
Type of protection	IP20

#### LOGISTICAL DATA

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

Product image	Product name	EAN
<b>.</b>	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	
POF	User instruction / safety instructions	DR DALI P	
PDF	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	

## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075845381	Folding box 1	52 mm x 112 mm x 34 mm	138.00 g	0.20 dm <sup>3</sup>
4058075845398	Shipping box 20	305 mm x 265 mm x 130 mm	3060.00 g	10.51 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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