

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

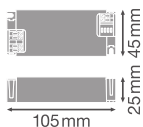
| | |
|--|---|
| Nominal output power | 42 W |
| Nominal voltage | 220...240 V |
| Nominal output voltage | 2.5...49 V |
| Input voltage AC | 198...264 V ¹⁾ |
| Input voltage DC | 198...264 V |
| U-OUT (working voltage) | 60 V |
| Type of current | DC |
| Nominal current | 270 mA |
| Nominal output current | 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 ²⁾ |
| 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 % ³⁾ |
| Power factor λ | > 0.95 ³⁾ |
| 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 |

1) Permitted voltage range

2) +/- 5 %

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 | 0.5...1.5 mm ² |
| Cable cross-section, output side | 0.5...1.5 mm ² |
| Prewired | No |
| Wire preparation length, input side | 7...9 mm |
| Wire preparation length, output side | 7...9 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 | 20...90 % |

Lifespan

| | |
|----------------------------|------------------------|
| ECG lifetime | 100000 h ¹⁾ |
| Number of switching cycles | 60000 |

¹⁾ At T_c max. - 10°C

Additional product data

| | |
|--------------|-----|
| Encapsulated | Yes |
|--------------|-----|

Capabilities

| | |
|--|-------------------|
| Dimmable | Yes |
| Dimming interface | DALI-2 / Push-DIM |
| Dimming range | 1...100 % |
| 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 | I / II |
| 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 | II |
| Type of protection | IP20 |

LOGISTICAL DATA

| | |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

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 |
|--|--|---|
|  | User instruction / safety instructions | DR DALI P |
|  | Legal information | Informationstext 18 Abs 4 ElektroG |
|  | Legal information | Safety Insert G11205865 |
|  | Legal information | Legal Insert G11185544 |
|  | Declarations of conformity | DR_AY DALI-P_CLAMP DUO |
|  | Declarations of conformity UKCA | DR AY_DALI-P_CLAMP DUO |
|  | EU Data Act | DALI LED Driver and Luminaires |
|  | EU Data Act | Field Assistant - NFC Program Application |

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 ³ |
| 4058075845398 | Shipping box 20 | 305 mm x 265 mm x 130 mm | 3060.00 g | 10.51 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 Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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