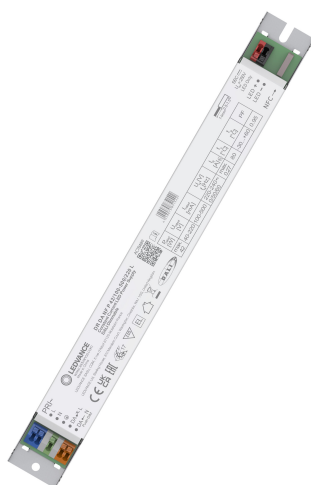


# PRODUCT DATASHEET

## DR DALI NFC P 42/100-500/220 L

LED DRIVER DALI NFC PERFORMANCE | Linear DALI constant LED driver with NFC dimming interface



### Areas of application

- Suitable for LED luminaires and LED modules
- Applicable for luminaires of protection class I
- Suitable for indoor non-SELV installations
- Suitable for emergency installations
- Linear lighting for office, education, storage areas and retail

### Product benefits

- DALI-2 certified incl. Parts 251, 252, 253
- Fully programmable via NFC
- Push DIM application for easy control
- High efficiency
- LED module interchangeable and future-proof thanks to Zhaga conformity
- High-quality dimming of 1...100 %
- Available in 26 W, 42 W, 60 W, 90 W and 150 W

### Product features

- 1 channel DALI-2 certified LED driver
- Quick and easy current setting via NFC
- Available with output current range: from 50...1,100 mA
- Very long lifetime: up to 100,000 h
- Constant Lumen Output (CLO)
- Compatible to Zhaga Book 13
- Suitable for emergency lighting fixtures acc.to EN 60598-2-2 with emergency output factor EOFI (adjustable via NFC)

TECHNICAL DATA

Electrical data

|                                          |                            |
|------------------------------------------|----------------------------|
| Nominal output power                     | 42 W                       |
| Nominal voltage                          | 220...240 V                |
| Nominal output voltage                   | 40...220 V                 |
| Input voltage AC                         | 198...264 V <sup>1)</sup>  |
| Input voltage DC                         | 176...280 V                |
| U-OUT (working voltage)                  | 40...220 V                 |
| Type of current                          | AC/DC                      |
| Nominal current                          | 270 mA                     |
| Nominal output current                   | 100...500 mA <sup>2)</sup> |
| Inrush current                           | 15.9 A                     |
| Output current tolerance                 | +/- 5 %                    |
| Output ripple current (120 Hz)           | ±1.5 %                     |
| Mains frequency                          | 0/50/60 Hz                 |
| Total harmonic distortion                | < 10 % <sup>3)</sup>       |
| Power factor λ                           | > 0.95 <sup>4)</sup>       |
| ECG efficiency                           | 92 %                       |
| 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 10 A (C) | 28                         |
| Max. ECG no. on circuit breaker 16 A (C) | 42                         |
| Surge capability (L/N-Ground)            | 2 kV                       |
| Surge capability (L-N)                   | 1 kV                       |
| Galvanic isolation                       | N-SELV                     |
| Operating frequency                      | 0/50/60 Hz                 |
| Power loss in stand-by mode              | 0.2 W <sup>5)</sup>        |

1) Permitted voltage range  
2) Default value 100 mA  
3) At full load, 220...240 V, 50 Hz  
4) Full load at 230 V/50 Hz  
5) Typical value +/- 5 %

Dimensions & Weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Length                               | 280.00 mm                 |
| Mounting hole spacing, length        | 267 mm                    |
| Width                                | 30.00 mm                  |
| Height                               | 21.00 mm                  |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Prewired                             | No                        |
| Wire preparation length, input side  | 7...9 mm                  |
| Wire preparation length, output side | 7...9 mm                  |
| Product weight                       | 187.00 g                  |

### Colors & materials

|                 |       |
|-----------------|-------|
| Product color   | White |
| Casing material | Metal |
| Body material   | Metal |

### Temperatures & operating conditions

|                                          |              |
|------------------------------------------|--------------|
| Ambient temperature range                | -30...+60 °C |
| Maximum temperature at tc test point     | 80 °C        |
| Max.housing temperature in case of fault | <110 °C      |
| Temperature range in operation           | -30...+60 °C |
| Permitted rel. humidity during operation | 20...90 %    |

### Lifespan

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

<sup>1)</sup> At T<sub>c</sub> 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             |
| Suitable for emergency lighting        | Yes           |
| Type of connection, output side        | Push terminal |

### Certificates & Standards

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

### LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -40...+80 °C |
|------------------------------|--------------|

### 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 | LED DRIVER DALI NF P                      |
|  | Legal information                      | Safety Insert G11205497                   |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG        |
|  | Legal information                      | DR DA NF P                                |
|  | Declarations of conformity             | DR DA NF P                                |
|  | Declarations of conformity UKCA        | DR DA NF P                                |
|  | 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               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075851542 | Folding box<br>1             | 35 mm x 290 mm x 25 mm               | 206.00 g     | 0.25 dm <sup>3</sup> |
| 4058075851559 | Shipping box<br>20           | 312 mm x 197 mm x 130 mm             | 4410.00 g    | 7.99 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](http://www.ledvance.com/guarantee)

DISCLAIMER

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