

# PRODUCT DATASHEET

## DR DS-P -20/220-240/500

LED DRIVER DIP-SWITCH | Constant current LED driver with dip-switch current setting



### Areas of application

- Suitable for LED luminaires and LED modules
- Applicable for luminaires of protection classes I and II
- For indoor SELV installations
- Offices, shopping centers, hospitals, restaurants, hotels
- Suitable for a broad range of luminaires (by broad range of dip switch currents)

### Product benefits

- High flexibility due to adjustable output currents via dip switch
- Low flickering enables high light quality as well as good visual comfort
- 5 years guarantee
- Slim housing for narrow installations
- High efficiency and reliability

### Product features

- Available in 20 W, 30 W, 40 W
- Independent installation with optional Cable Clamp Kit
- Lifetime: up to 50,000 h (at max. tc temperature)
- Type of protection: IP20
- Low ripple current < 5%
- Supply voltage: 220...240 V
- Operating frequency: 50/60 Hz
- Safety according to EN 61347-1, 61347-2-3, 61347-2-13, 62384
- Immunity according to EN 61547

## TECHNICAL DATA

### Electrical data

|                                          |                                                                                     |
|------------------------------------------|-------------------------------------------------------------------------------------|
| Nominal wattage                          | 21.00 W                                                                             |
| Nominal output power                     | 20 W <sup>1)</sup>                                                                  |
| Nominal voltage                          | 220...240 V                                                                         |
| Nominal output voltage                   | 20...42 V <sup>2)</sup>                                                             |
| Input voltage AC                         | 198...264 V <sup>3)</sup>                                                           |
| Input voltage DC                         | 230...280 V                                                                         |
| U-OUT (working voltage)                  | 20...42 V                                                                           |
| Type of current                          | AC/DC                                                                               |
| Nominal current                          | 140 mA                                                                              |
| Nominal output current                   | 150 mA / 200 mA / 250 mA / 300 mA / 350 mA / 400 mA / 450 mA / 500 mA <sup>4)</sup> |
| Inrush current                           | 15 A                                                                                |
| Output current tolerance                 | +/- 5 %                                                                             |
| Output ripple current (100 Hz)           | ≤ 5 %                                                                               |
| Mains frequency                          | 50/60 Hz                                                                            |
| Total harmonic distortion                | ≤ 15 % <sup>5)</sup>                                                                |
| Power factor $\lambda$                   | ≥ 0.92 <sup>5)</sup>                                                                |
| ECG efficiency                           | 85 % <sup>5)</sup>                                                                  |
| Device power loss                        | 3.7 W <sup>5)</sup>                                                                 |
| Max. ECG no. on circuit breaker 10 A (B) | 40                                                                                  |
| Max. ECG no. on circuit breaker 16 A (B) | 64                                                                                  |
| Max. ECG no. on circuit breaker 25 A (B) | 100                                                                                 |
| Surge capability (L-N)                   | 1.5 kV                                                                              |
| Galvanic isolation                       | SELV                                                                                |

1) Partial load 3...21 W

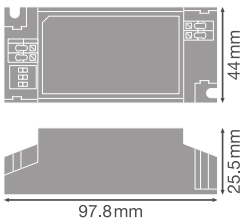
2) Maximum 55 V

3) Permitted voltage range

4) ±10% (150mA,200mA), ±6% (250mA,300mA), ±5% (350-500mA)

5) At full load, 220...240 V, 50 Hz

### Dimensions & Weight



|                                      |                            |
|--------------------------------------|----------------------------|
| Length                               | 97.80 mm                   |
| Mounting hole spacing, length        | 88.00 mm                   |
| Width                                | 44.00 mm                   |
| Height                               | 25.50 mm                   |
| Cable cross-section, input side      | 0.75...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  | 8.0...9.0 mm               |
| Wire preparation length, output side | 8.0 mm                     |
| Product weight                       | 61.00 g                    |

Colors & materials

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

Temperatures & operating conditions

|                                          |              |
|------------------------------------------|--------------|
| Ambient temperature range                | -20...+50 °C |
| Maximum temperature at tc test point     | < 90 °C      |
| Max.housing temperature in case of fault | < 90 °C      |
| Temperature range in operation           | -20...+50 °C |
| Permitted rel. humidity during operation | 10...93 %    |

Lifespan

|                            |         |
|----------------------------|---------|
| ECG lifetime               | 50000 h |
| Number of switching cycles | 25000   |

Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

|                                        |               |
|----------------------------------------|---------------|
| Dimming interface                      | Not dimmable  |
| Overheating protection                 | No            |
| Overload protection                    | Yes           |
| Short-circuit protection               | Yes           |
| Max. cable length to lamp/LED module   | 2,0 m         |
| Suitable for fixtures with prot. class | I,II          |
| Suitable for emergency lighting        | No            |
| Type of connection, output side        | Push terminal |

Certificates & Standards

|                           |                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / CB / ENEC / EAC                                                                                                          |
| Standards                 | Acc. to EN 61347-2-13 / Acc. to EN 61347-1 / Acc. to EN 55015 /<br>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...+85 °C |
|------------------------------|--------------|

EQUIPMENT / ACCESSORIES

- Cable Clamp Kit to ensure proper strain relief

DOWNLOAD DATA

| Documents and certificates                                                          |                                 |
|-------------------------------------------------------------------------------------|---------------------------------|
|  | User instruction                |
|  | Declarations Of Conformity CE   |
|  | Declarations Of Conformity UKCA |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854077050 | Folding box<br>1             | 106 mm x 47 mm x 31 mm               | 76.00 g      | 0.15 dm³  |
| 4099854077067 | Shipping box<br>10           | 235 mm x 205 mm x 80 mm              | 974.00 g     | 3.85 dm³  |
| 4099854077074 | Shipping box<br>50           | 470 mm x 255 mm x 240 mm             | 4870.00 g    | 28.76 dm³ |

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.

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### References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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### DISCLAIMER

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