

# PRODUCT DATASHEET

## DR-VAL -45/220-240/1A0

LED DRIVER VALUE | Constant current LED driver with dedicated current



### 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

### Product benefits

- Suitable for operation with many discrete LED and COB LED
- Excellent price/performance ratio
- 3 years guarantee
- Quick and simple installation
- High efficiency and reliability

### Product features

- Available in 15 W, 20 W, 30 W, 45 W and 60 W
- Integrated cable clamp for independent installation
- Lifetime: up to 35,000 h (at max. tc temperature)
- Type of protection: IP20
- Dedicated, constant output current
- Low ripple current < 5%
- Supply voltage: 220...240 V
- Operating frequency: 50/60 Hz
- Operated with less than 60 V: Safety extra-low voltage (SELV)
- Short-circuit and overload protection

## TECHNICAL DATA

### Electrical data

|                                          |                           |
|------------------------------------------|---------------------------|
| Nominal wattage                          | 45.00 W                   |
| Nominal output power                     | 45 W <sup>1)</sup>        |
| Nominal voltage                          | 220...240 V               |
| Nominal output voltage                   | 30...40 V <sup>2)</sup>   |
| Input voltage AC                         | 198...264 V <sup>3)</sup> |
| U-OUT (working voltage)                  | 60 V                      |
| Type of current                          | DC                        |
| Nominal current                          | 290 mA                    |
| Nominal output current                   | 1050 mA <sup>4)</sup>     |
| Inrush current                           | 30 A                      |
| Output current tolerance                 | ±5 %                      |
| Mains frequency                          | 50...60 Hz                |
| Total harmonic distortion                | 16 % <sup>5)</sup>        |
| Power factor $\lambda$                   | 0.90 <sup>6)</sup>        |
| ECG efficiency                           | 89 % <sup>7)</sup>        |
| Device power loss                        | 4.6 W <sup>8)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 15                        |
| Max. ECG no. on circuit breaker 16 A (B) | 25                        |
| Max. ECG no. on circuit breaker 25 A (B) | 39                        |
| Surge capability (L-N)                   | 1 kV                      |
| Galvanic isolation                       | SELV                      |

1) Partial load 32...42 W

2) Maximum 60 V

3) Permitted voltage range

4) ±10%

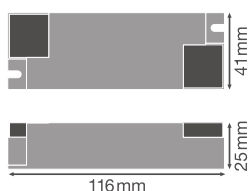
5) At full load, 220...240 V, 50 Hz

6) Full load at 230 V

7) At full load and 230 V

8) At maximum LED load of 42 W

### Dimensions & Weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Length                               | 116.00 mm                 |
| Mounting hole spacing, length        | 105,0 mm                  |
| Width                                | 41.00 mm                  |
| Height                               | 25.00 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  | 5...6 mm                  |
| Wire preparation length, output side | 5...6 mm                  |
| Product weight                       | 94.00 g                   |

### Colors & materials

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

### Temperatures & operating conditions

|                                          |                         |
|------------------------------------------|-------------------------|
| Ambient temperature range                | -10...+45 °C            |
| Maximum temperature at tc test point     | 90 °C                   |
| Max.housing temperature in case of fault | 95 °C                   |
| Temperature range in operation           | -10...+45 °C            |
| Permitted rel. humidity during operation | 10...90 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 90%

### Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 35000 h <sup>1)</sup> |
|--------------|-----------------------|

<sup>1)</sup> At maximum T<sub>c</sub> = 90°C / 10% failure rate

### 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        | Screw terminal |

### Certificates & Standards

|                           |                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE                                                                                                                         |
| 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...+75 °C |
|------------------------------|--------------|

### DOWNLOAD DATA

| DOWNLOAD DATA                                                                      |                                                                    |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|   | User instruction<br>LED DRIVER VALUE CC INDOOR                     |
|  | PRODUCT DATASHEET<br>DR-VAL-45/220-240/1A0                         |
|  | Declarations of conformity<br>EU Declaration of Conformity 3581723 |
|  | Catalogs<br>LUM Brochure 2020 Wave 8 EN                            |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075240254 | Folding box<br>1             | 45 mm x 29 mm x 122 mm               | 104.00 g     | 0.16 dm <sup>3</sup>  |
| 4058075240261 | Shipping box<br>10           | 244 mm x 139 mm x 98 mm              | 1171.00 g    | 3.32 dm <sup>3</sup>  |
| 4058075254206 | Shipping box<br>60           | 439 mm x 263 mm x 232 mm             | 7526.00 g    | 26.79 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.