

# DALI-Driver for DC-LED lamps or modules

## DRIVER DALI 60W/1100-1500mA IP20

# Radium

Product Datasheet Date: 04.07.2022



## General Data

Article No.	OTDA4032
Code	DRIVER DC DALI 60W/1100-1500mA IP20
Product EAN	4003556010840
Customs tariff no.	85044082
Box quantity (pcs.)	42
EAN Box	4003556410848
Gross weight of box in kg	10.46
Length of box in m	0.375
Width of box in m	0.275
Height of box in m	0.28
ETIM class	EC002710
ETIM class name	LED driver
Weight	245 g
Product status	<span style="color: green;">●</span> Active

## Electric Parameters

Rated value output power max.	63 W
Power factor	≥0,9

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## Electric Parameters

Input voltage (range)	200-264 V
Output voltage	19-44 V
Surge voltage resistance (L - N)	2 kV
Output current	1100-1500 mA
Supply frequency	50/60 Hz
Suitable for DC-voltage (primary side)	Yes
Content of harmonics (THD)	15 %
dimnable	Yes
Dimming with push-button	Yes
Dimming interface	DALI
DALI Device Type	DALI2 DT6

## Light Application Parameters

Dimming range	0 - 100 %
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## Service Life

Service life	70000 h
Lifetime @Tc max.	50000 h
Tc Temperature max.	77 °C
Lifetime @Tc mean	70000 h
Tc mean	71 °C
Lifetime @Tc low	100000 h
Tc low	64 °C
Guarantee up to	5 years

## Specification

Mean efficiency	88 %
Length	285 mm
Length	285 mm
Height	21 mm
Width	30 mm
Material	metal
Weight	245 g

## Notes on Operation

Degree of protection (IP)	IP20
Type of connection	spring clamp

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## Notes on Operation

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Range of storage temperature	-30...+80 °C
Ambient temperatures	-30...+50 °C
Tc Temperature max.	77 °C
max. relative air humidity	90 %

## Notes

External constant current driver for installation in luminaire (e.g. for DC LED tubes), dimmable via DALI interface, for indoor use.

Please, refer to [www.radium.de/recycling](http://www.radium.de/recycling) for notes on disposal of burned-out lamps as well as lamp breakage.

The "lifespan L70" described for LED lamps indicates the number of hours when the luminous flux has decreased to 70% of its initial value.

The optimal field 'info about service life' contains the frame conditions according to standards based on which the specific service life has been determined. So, for example, "12B50, 50Hz" means that the mean service life (B50) has been determined with a 12h switching cycle at mains (frequency 50Hz), "3B50, HF" is based on a 3h switching cycle at electronic control gear (high frequency).

### Special features



All technical data without guarantee.

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## Technical information

### DRIVER DALI 60W/1100-1500mA IP20

Constant current LED drivers for LED modules with an adjustable operating current of 1100-1500mA and an output voltage between 19V and 44V.

Suitable for protection class I and protection class II luminaires.

Flicker free with high efficiency and long service life of 70,000h @T<sub>c</sub> 71°C.

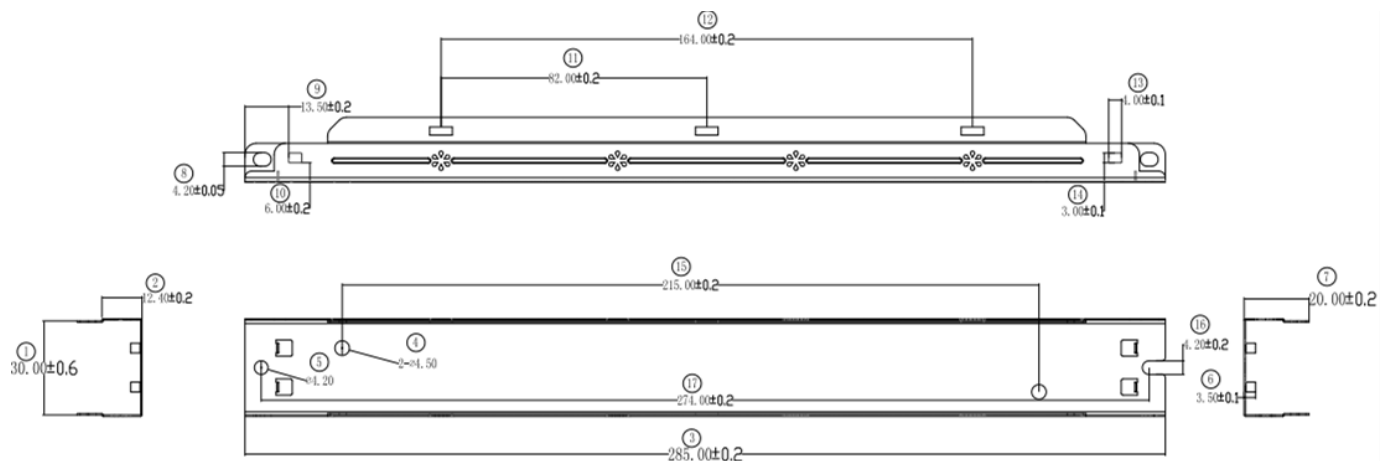
For AC operation at 230V 50-60Hz.



Recommended for the following Radium LED T8 Neo Tube:

- 43719852 LED T8 NEO 58 840/G13
- 43719853 LED T8 NEO 58 865/G13

## Drawing



## Technical Data

### General Data

Code	DRIVER DALI 60W/1100-1500mA IP20
Article No.	OTDA4032
EAN10	4003556010840
EAN40	4003556410848
Weight [g]	240 g
Length [mm]	285 mm
Width [mm]	30 mm
Height [mm]	21 mm
Service Life @T <sub>c</sub> 77°C	50,000 h
Service Life @T <sub>c</sub> 71°C	70,000 h
Service Life @T <sub>c</sub> 64°C	100,000 h
Guarantee	5 years

### Operating conditions

Permissible ambient temperature T <sub>a</sub> [°C]	-30°C...+50°C
Permissible storage temperature [°C]	-30°C...+80°C
Permissible T <sub>c</sub> temperature [°C]	-30°C...+77°C
Max. permissible T <sub>c</sub> temperature [°C]	+77°C
Permissible air moisture	10-90%RH
Degree of protection (IP)	IP20
Protection class	I

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Information no. 9909-01-2112

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## Technical information

### Electrical Parameter Output

Rated power [W]	20,9 – 63 W
Permissible voltage [V DC]	19 – 44 V
Output current [mA]	1100 – 1500 mA
Output current tolerance [mA]	± 5 %
Output P_ST_LM	≤ 1
Output SVM	≤ 0,4
Offset time @AC 230V	<1 s
Kind of protection embodied	Short-circuit proof, open-circuit-proof

### Electrical Parameter Input

Mains voltage range [V AC]	220 – 240 V
Alternating voltage range [V AC]	200 – 264 V
Direct voltage range [V DC]	200 – 264 V
Mains frequency [Hz]	50 – 60 Hz
Nominal current [A]	0.45 A
Mains power factor [ $\lambda$ ]	≥0.9 @230 V <sub>ac</sub>
THD	≤15 % @1500mA
Efficiency	≥89 % @1500mA
Inrush current	≤80A & 350uS @230 V <sub>ac</sub>
Power consumption in Stand-by	≤0.5 W
Surge voltage strength L-N	1 kV
Surge voltage strength L/N-PE	2 kV

### Safety and electromagnetic compatibility

Certificates	ENEC, CE
Safety standards	EN61347
EMI	EN55015, EN61000-3-2
EMS	EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547
RoHS	RoHS 2.0 (EU) 2015/863
DALI	IEC 62386-101, 102, 207: DALI2.0

### Operating current table

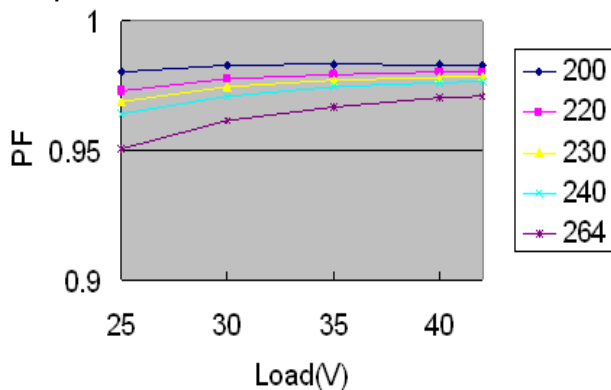
Parameter			DIP-Switches			
Min. Voltage	Max. Voltage	Current	1	2	3	4
19V	42V	1500mA	—	—	—	—
19V	43V	1450mA	—	—	—	ON
19V	44V	1400mA	—	—	ON	—
19V	44V	1350mA	—	—	ON	ON
19V	44V	1300mA	—	ON	—	—
19V	44V	1250mA	—	ON	—	ON
19V	44V	1200mA	—	ON	ON	—
19V	44V	1150mA	—	ON	ON	ON
19V	44V	1100mA	ON	—	—	—

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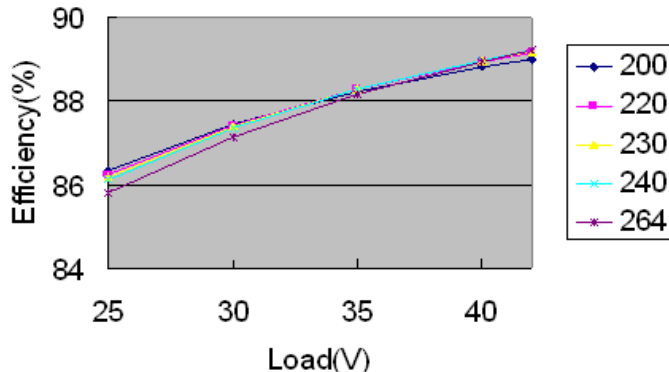
## Technical information

### Electrotechnical Parameter

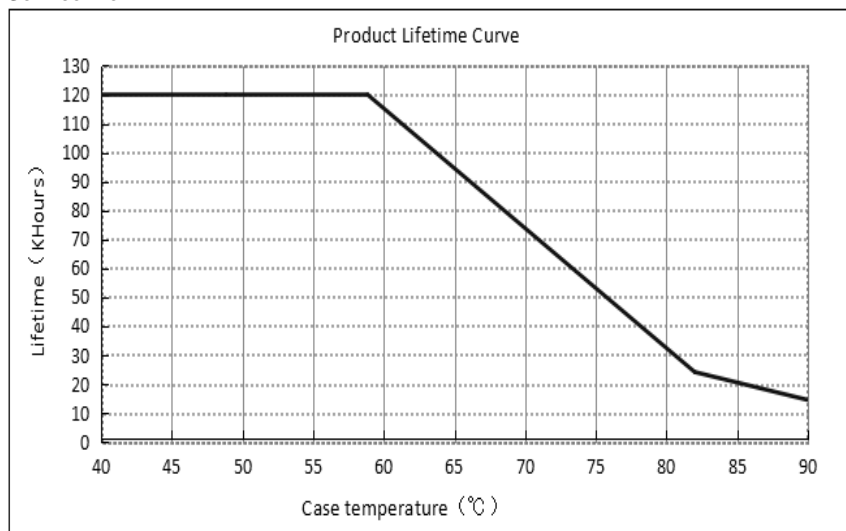
#### Mains power factor $\lambda$ @1500mA



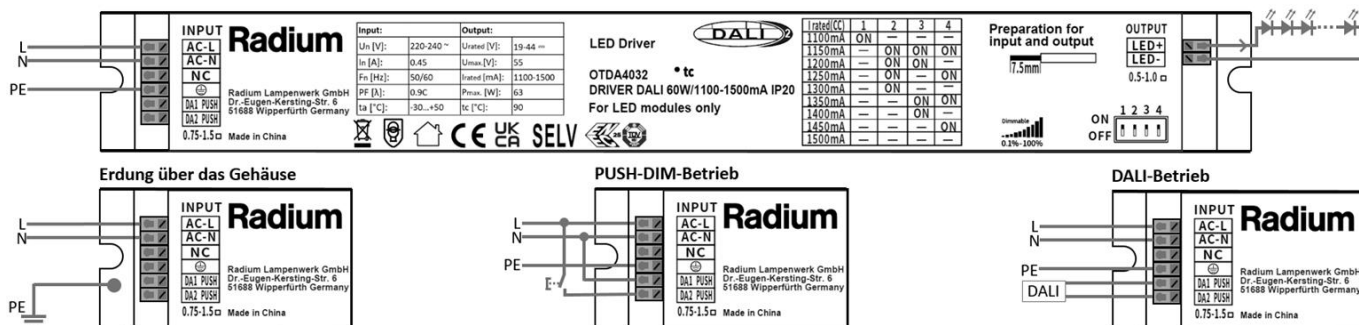
#### Efficiency @1500mA



#### Service life



#### Wiring diagram



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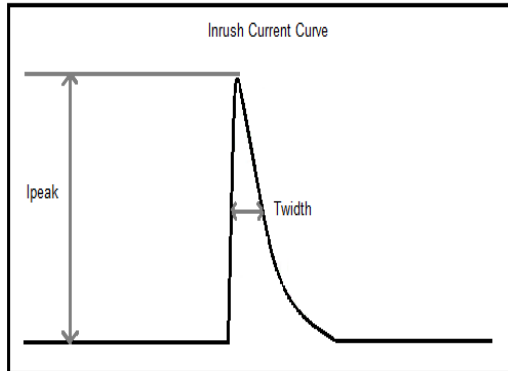
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Validity: The technical information sheets (TI sheets) are updated at irregular intervals! The user is responsible for the validity and up-to-dateness of this TI sheet. With the publication of this TI sheet, all previous editions for this lamp type lose their validity

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## Technical information

### Fuse rating



Characteristic	Current	Max. no. of devices
B	10A	21
	16A	34
	20A	42
	25A	53
C	10A	35
	16A	57
	20A	70
	25A	88
I <sub>peak</sub> / T <sub>width</sub>	≤23,5A / 58uS	

### Notes

- It is recommended to install overvoltage and undervoltage protection devices and surge protection devices in the power supply circuits of the light fixtures to ensure safety before connecting to electricity.
- Please disconnect the AC input before switching the output current via the DIP switch.
- The DALI dimming function and the push dimming function cannot be used at the same time, in this case the DALI dimmer will be damaged.
- The maximum wire length between the push switch and the farthest LED driver is 135m at a wire diameter of 0,5-2,5mm<sup>2</sup>
- The minimum dimming depth of the push dimming is 4% (I<sub>out</sub>).
- As an accessory, the LED driver is not the only factor determining the EMC performance of the LED light fixture. The structure and the wiring of the light fixture are also relevant.
- Unless otherwise stated, the parameters of the power factor, harmonic and efficiency were test results under the ambient temperature of 25°C, humidity of 50%, input voltage of 230V<sub>ac</sub> (50Hz) and full load.
- Use this product according to the specifications, please. Otherwise there may be malfunction.
- Use of light fixtures that have not been certified or are not compatible with the LED drivers may cause fire or other hazards.
- Man-made damage, any use beyond the specification and non-original-factory modification are not covered by warranty.

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