

# Driver for DC-LED lamps or modules

DRIVER 50W/1200mA IP20

# Radium

Product Datasheet Date: 04.07.2022



## General Data

Article No.	OTNA4035
Code	DRIVER DC 50W/1200mA IP20
Product EAN	4003556010871
Customs tariff no.	85044082
Box quantity (pcs.)	48
EAN Box	4003556410879
Gross weight of box in kg	9.8
Length of box in m	0.385
Width of box in m	0.285
Height of box in m	0.21
ETIM class	EC002710
ETIM class name	LED driver
Weight	186 g
Product status	<span style="color: green;">●</span> Active

## Electric Parameters

Rated value output power max.	60 W
Power factor	≥0,95
Output voltage	33-42 V
Surge voltage resistance (L - N)	3,75 kV
Output current	1200-1200 mA
Supply frequency	50/60 Hz
dimnable	No

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**Radium**

## Service Life

Service life	70000 h
Tc Temperature max.	74 °C

## Specification

Mean efficiency	≥90% %
Length	245 mm
Length	245 mm
Height	21 mm
Width	30 mm
Material	metal
Weight	186 g

## Notes on Operation

Degree of protection (IP)	IP20
Type of connection	spring clamp
Ambient temperatures	-30...+50
Tc Temperature max.	74 °C

## Notes

External constant current driver for installation in luminaire (e.g. for DC LED tubes), not dimmable, 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 50W/1200mA IP20

Constant current LED drivers for LED modules with an operating current of 1200mA and an output voltage between 33V and 42V.

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> 68°C.

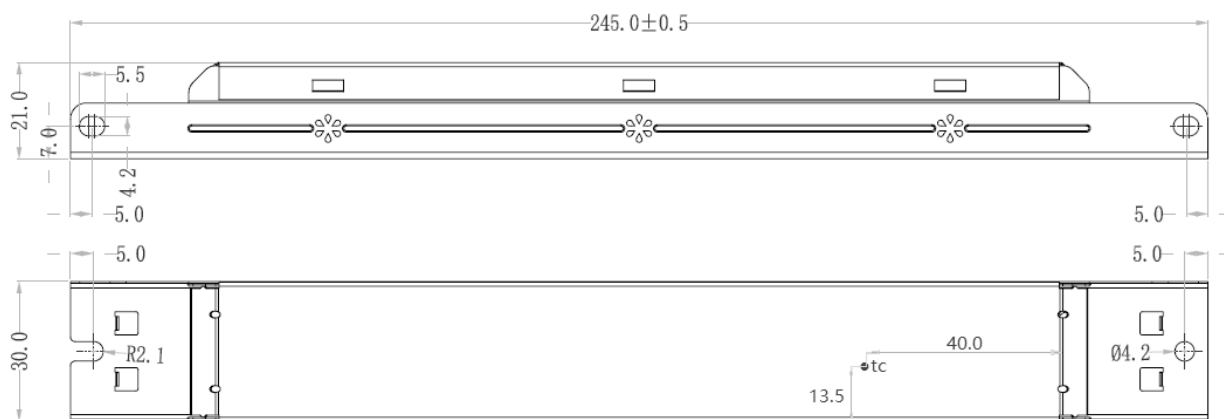
For AC operation at 230V 50-60Hz or DC operation at 200-280V DC.



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 50W/1200mA IP20
Article No.	OTNA4035
EAN10	4003556010871
EAN40	4003556410879
Weight [g]	180 g
Length [mm]	245 mm
Width [mm]	30 mm
Height [mm]	21 mm
Service Life @T <sub>c</sub> 73°C	50,000 h
Service Life @T <sub>c</sub> 68°C	70,000 h
Service Life @T <sub>c</sub> 63°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...+73°C
Max. permissible T <sub>c</sub> temperature [°C]	+73°C
Permissible air moisture	10-90%RH
Degree of protection (IP)	IP20
Protection class	I

Radium Lampenwerk GmbH  
P.O. Box 1440 - 51678 Wipperfürth

+49-2267 - 81 - 1  
FAX +49-2267 - 81 - 231

Information no. 9906-01-2112

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## Technical information

### Electrical Parameter Output

Rated power [W]	39,6 – 50,4 W
Permissible voltage [V DC]	33 – 42 V
Output current [mA]	1200 mA
Output current tolerance [mA]	± 5 %
Output P_ST_LM	≤ 1
Output SVM	≤ 0,4
Offset time @ AC 230V	<0,5 s
Kind of protection embodied	Short-circuit proof, open-circuit-proof

### Electrical Parameter Input

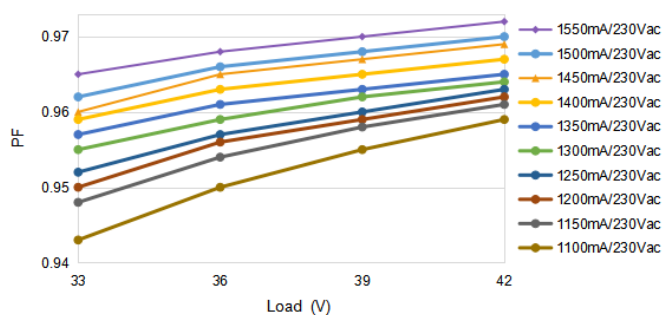
Mains voltage range [V AC]	220 – 240 V
Alternating voltage range [V AC]	200 – 264 V
Direct voltage range [V DC]	200 – 280 V
Mains frequency [Hz]	50 – 60 Hz
Nominal current [A]	0.4 A
Mains power factor [ $\lambda$ ]	≥0.94 @ 230 V <sub>ac</sub>
THD	≤20 %
Efficiency	≥90 %
Inrush current	≤58A & 163μs @ 230 V <sub>ac</sub>
Power consumption in Stand-by	≤0.5 W
Surge voltage strength L-N	1 kV
Surge voltage strength L/N-PG	2 kV

### Safety and electromagnetic compatibility

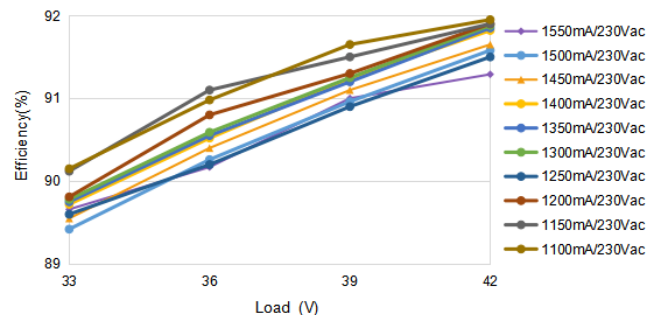
Certificates	ENEC, CE
Safety standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017, EN62384:2016/A1:2009, EN61347-2-13:2014/A1:2017, EN61347-1:2015, EN62493:2015 IEC 61347-1:2015, IEC61347-2-3:2014, IEC61347-2-13:2014/AMD1:2016
EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3
EMS	CE-EMC/RCM: EN61000-4-2,3,4,5 (L-N:1KV L/N-PG:2KV),6,11
RoHS	RoHS 2.0 (EU) 2015/863

## Electrotechnical Parameter

### Mains power factor $\lambda$



### Efficiency



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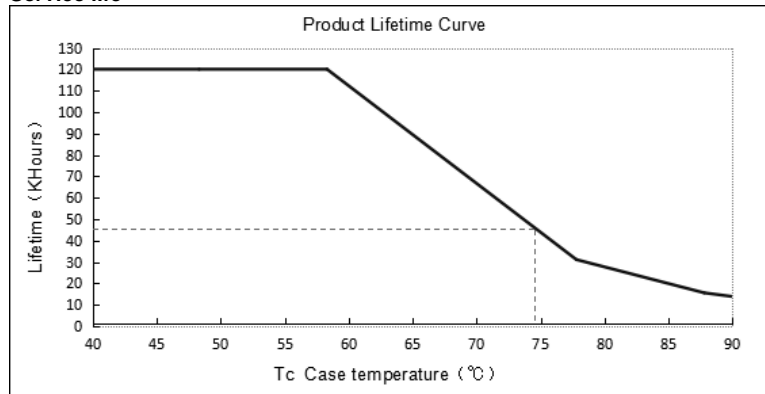
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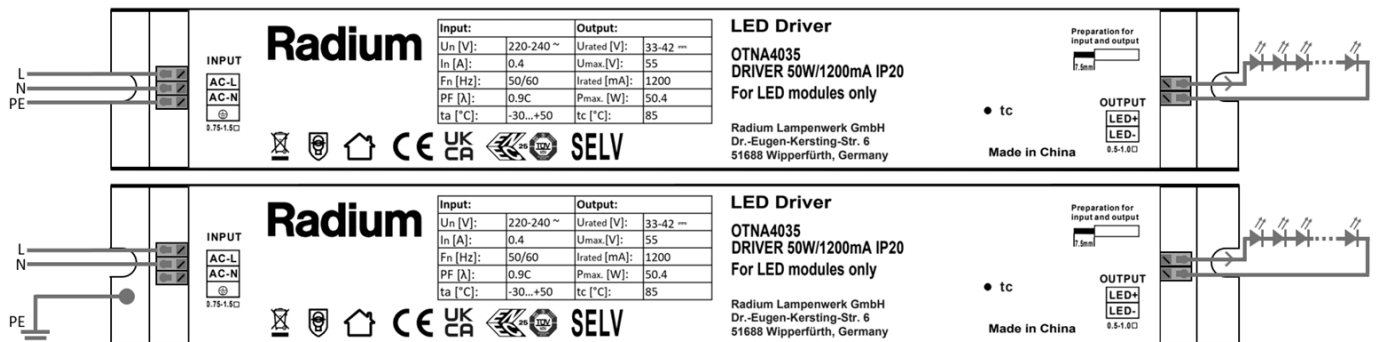
# Radium

## Technical information

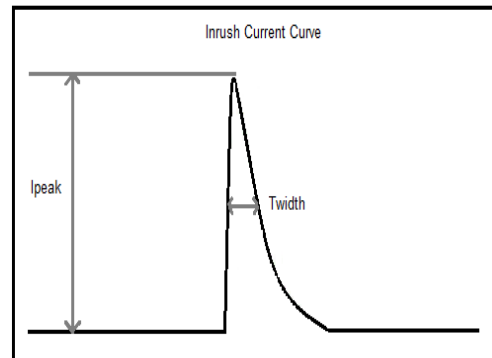
### Service life



### Wiring diagram



### Fuse rating



Characteristic	Current	Max. no. of devices
B	10A	9
	16A	15
C	10A	15
	16A	25
Ipeak / Twidth	≤58A / 163uS	

### 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.
- 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, harmonics and efficiency were test results under the conditions ambient temperature of 25°C, humidity of 50%, input voltage of 230Vac(50Hz) and full load.
- Use this product according to the specifications. 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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