

Radium

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_c 68°C.

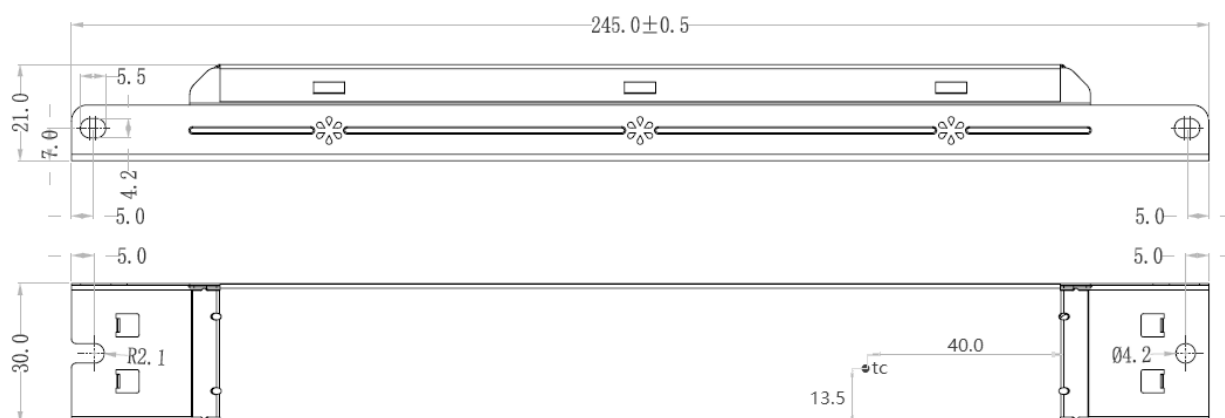
For AC operation at 230V 50-60Hz or DC operation at 200-280V DC.



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 _c 73°C	50,000 h
Service Life @T _c 68°C	70,000 h
Service Life @T _c 63°C	100,000 h
Guarantee	5 years

Operating Conditions

Permissible ambient temperature T _a [°C]	-30°C...+50°C
Permissible storage temperature [°C]	-30°C...+80°C
Permissible T _c temperature [°C]	-30°C...+73°C
Max. permissible T _c temperature [°C]	+73°C
Permissible air moisture	10-90%RH
Degree of protection (IP)	IP20
Protection class	I

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Information no. 9906-01-2112

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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

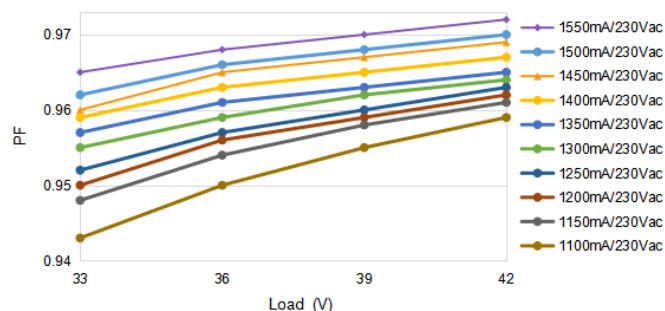
Mains voltage range [V AC]	220 – 240 V
Alternating voltage range [V AC]	200 – 264 V
Direct voltage range [V DC]	200 – 280 V
Mains frequency [Hz]	50 – 60 Hz
Nominal current [A]	0.4 A
Mains power factor [λ]	≥0.94 @ 230 V _{ac}
THD	≤20 %
Efficiency	≥90 %
Inrush current	≤58A & 163μs @ 230 V _{ac}
Power consumption 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

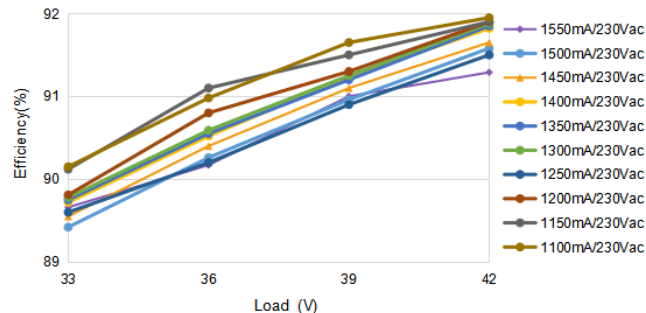
Certificates	ENEC, CE
Safety standards	EN61347-1:2015, EN61347-2-13:2014/A1:2017, EN62384:2016/A1:2009, EN61347-2-13:2014/A1:2017, EN61347-1:2015, EN62493:2015 IEC 61347-1:2015, IEC61347-2-3:2014, IEC61347-2-13:2014/AMD1:2016
EMI	CE-EMC/RCM: EN55015, EN61000-3-2, EN61000-3-3
EMS	CE-EMC/RCM: EN61000-4-2,3,4,5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

Electrotechnical Parameter

Mains power factor λ



Efficiency



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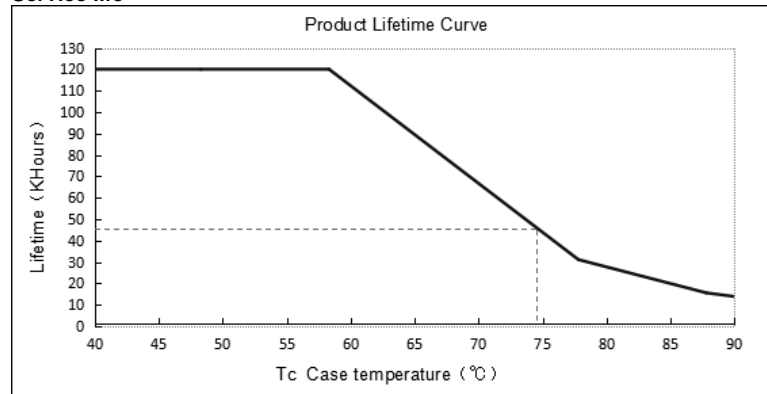
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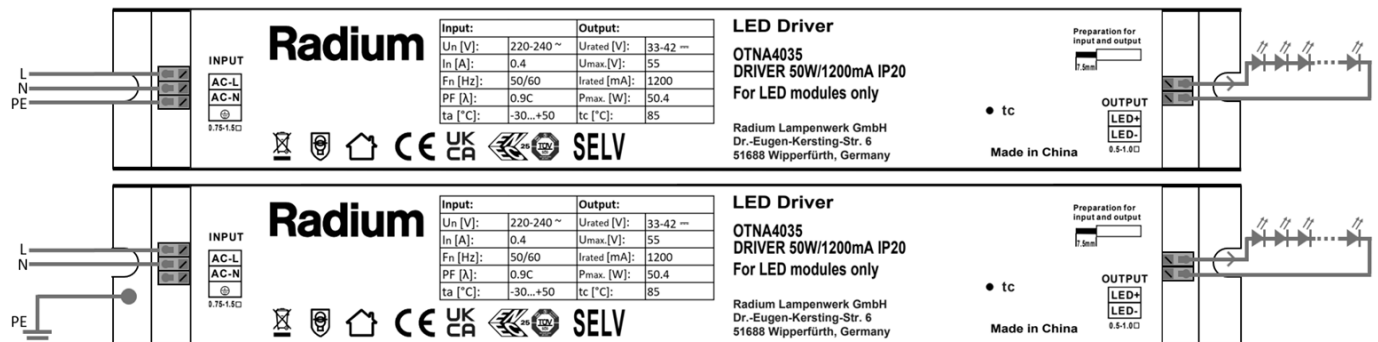
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Technical information

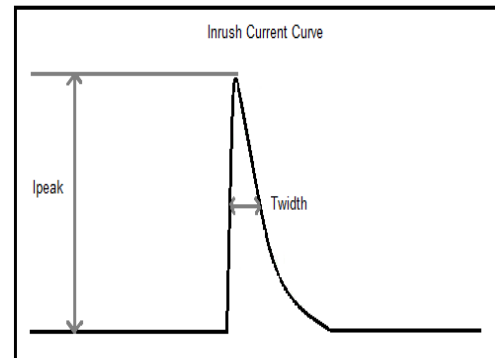
Service life



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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