

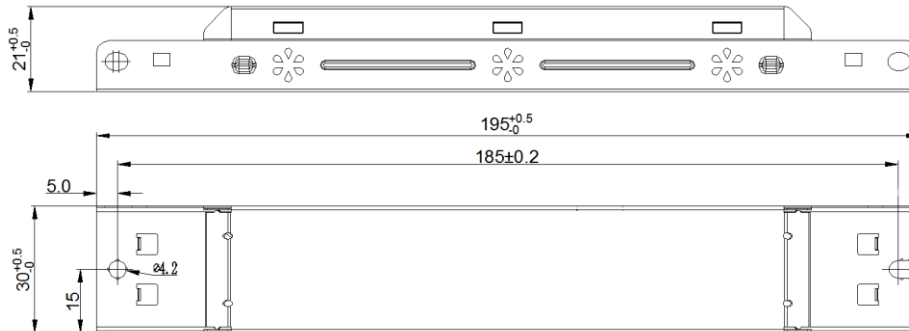
DRIVER 60W/200-350mA IP20

Radium

Constant current LED driver for LED modules with DipSwitch adjustable operating current from 200 to 350mA and forward voltage from 115V to 172V.
Flicker free with high efficiency and long lifetime of 70,000h @T_c 75°C.
For AC operation at 220-240V 50-60Hz or DC operation at 180-264V DC.



Drawing



Technical Data

General Data

Code	DRIVER 60W/200-350mA IP20
Article No.	OTNA4437
EAN10	4003556012738
EAN40	4003556412736
Weight	150 g
Length	195 mm
Width	30 mm
Height	21 mm
Service Life @T _c 81°C	50.000 h
Service Life @T _c 75°C	70.000 h
Service Life @T _c 69°C	100.000 h
Guarantee	5 years

Operating Conditions

Permissible ambient temperature Ta	-30°C...+50°C
Permissible storage temperature	-30°C...+85°C
Permissible T _c temperature	-20°C...+90°C
Max. permissible T _c temperature	+90°C
Permissible air moisture	10-95%RH
Degree of protection (IP)	IP20
Protection class	I
Dimmable	No

Electrical Parameter Output

Rated power	23 – 60,2 W
Permissible voltage [DC]	115 – 172 V
Output current	200; 250; 300; 350 mA
Output current tolerance [mA]	± 7 % @ 200mA; ± 5 % @ 250m – 350 mA;
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
Efficiency	≥89 % @200 mA; ≥90 % @250 mA; ≥91 % @300 & 350 mA

Information no. 9904-03-2308

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Inrush current	250 V
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Electrical Parameter Input

Mains voltage range [AC]	220 – 240 V
Alternating voltage range [AC]	198 – 264 V
Direct voltage range [DC]	180 – 264 V
Maximum input power	66,2 W
Mains frequency	0 Hz; 47 – 63 Hz
Nominal current	0,4 A Max.
Mains power factor	≥0.9 @230 V _{ac}
THD	≤20 %
Inrush current	≤35A & 250μs @230 V _{ac} Max.
Power consumption in Stand-by	≤0.5 W
Surge voltage strength L-N	1 kV
Surge voltage strength L/N-PG	1,6 kV

Safety and electromagnetic compatibility

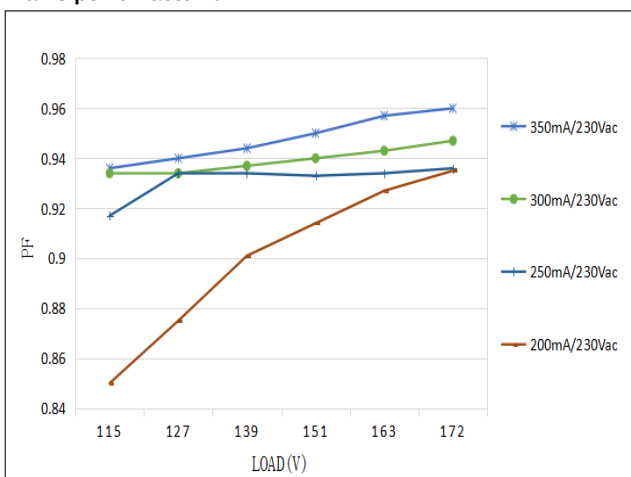
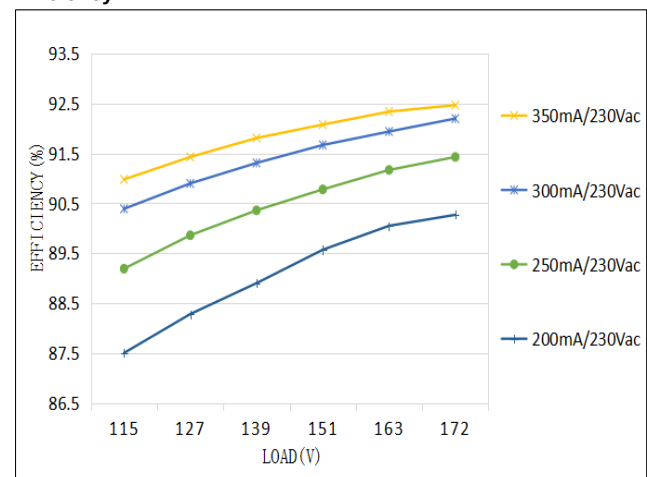
Certificates	ENEC, CE, EL, UKCA
Safety Standards	ENEC: EN 61347-2- 13:2014/A1:2017, EN 61347- 1:2015/A1:2021 EN IEC62384:2020 CE-LVD: EN 61347-2- 13:2014/A1:2017, EN 61347- 1:2015/A1:2021, EN 61347-2- 13 - J UKCA-LVD: EN 61347- 1:2015/A1:2021, EN 61347-2- 13:2014/A1:2017, EN 62493:2015
EMI	CE-EMC: EN55015, EN61000-3-2, EN61000-3-3, EN IEC 61347-2- 13 Annex J
EMS	CE-EMC/RCM: EN61000-4-2, 3, 4, 5 (lightning strike 1kV), 6, 11
RoHS	RoHS 2.0 (EU) 2015/863

Operating current table

Parameter			DIP-Switches	
Min. Voltage	Max. Voltage	power	1	2
115V	172V	200mA	—	—
115V	172V	250mA	ON	—
115V	172V	300mA	—	ON
115V	172V	350mA	ON	ON

Fuse rating

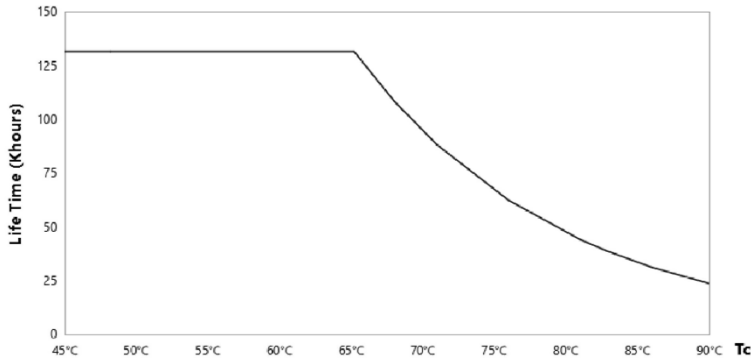
Charakteristic	power	Max. no. of devices
B	10A	20
	16A	32
C	10A	34
	16A	54
I _{peak} / T _{width}	≤35A / 250μS	

Electrotechnical Parameter**Mains power factor λ****Efficiency**

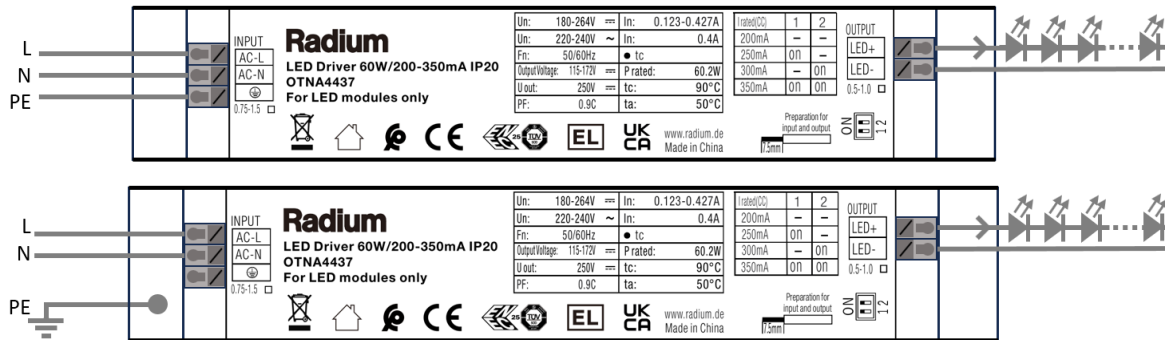
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Service life



Wiring diagram



Notes

- Use this product according to the specifications. Failure to do so may result in malfunction.
- Using LED modules that are not compatible with the LED Driver may result in fire or other hazards.
- Unless otherwise specified, the power factor, harmonic and efficiency parameters have been tested at an ambient temperature of 25 °C, humidity of 50%, input voltage of 230 V AC (50 Hz) and under full load.
- Please note that other factors besides the driver also affect the EMC compatibility of the LED luminaire. The structure and wiring of the luminaire as well as the LED module used are also important. Therefore, it is recommended to confirm the EMC of the entire LED luminaire.
- Man-made damage, any out-of-specification use, and modifications not made by the manufacturer are not covered under warranty.
- It is recommended to install overvoltage and undervoltage protection devices in the luminaires' circuits to ensure safety before connecting to the mains.

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