

# Radium

## Technical information

### DRIVER DALI 15W/100-350mA IP20

Constant current LED driver for LED modules with an adjustable operating current of 100-350mA and an output voltage between 16V and 42V. Suitable for protection class I and protection class II luminaires.

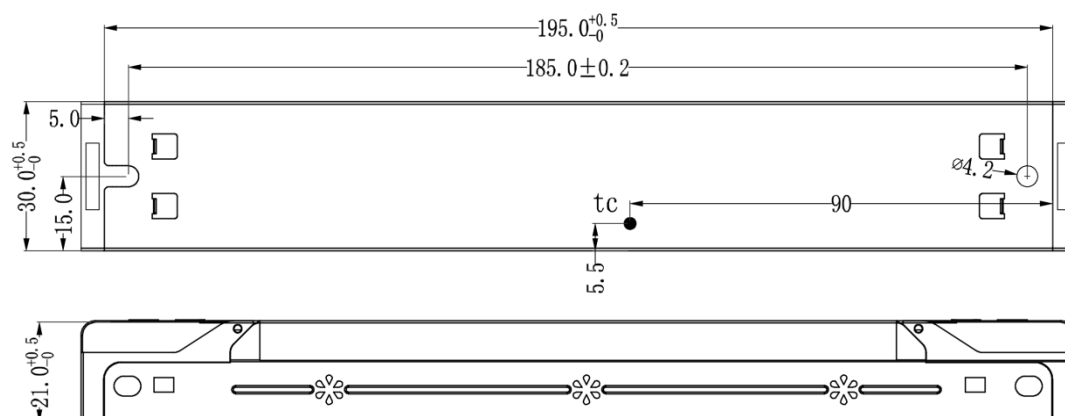
Flicker free with high efficiency and long service life of 70,000h @T<sub>c</sub> 62°C. For AC operation at 230V 50-60Hz.



Recommended for the following Radium LED T8 Neo Tube:

- 43719848 LED T8 NEO 18 840/G13
- 43719849 LED T8 NEO 18 865/G13

## Drawing



## Technical Data

### General Data

Code	DRIVER DALI 15W/100-350mA IP20
Article No.	OTDA4030
EAN10	4003556010826
EAN40	4003556410824
Weight [g]	150 g
Length [mm]	195 mm
Width [mm]	30 mm
Height [mm]	21 mm
Service Life @T <sub>c</sub> 66°C	50,000 h
Service Life @T <sub>c</sub> 62°C	70,000 h
Service Life @T <sub>c</sub> 57°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...+66°C
Max. permissible T <sub>c</sub> temperature [°C]	+66°C
Permissible air moisture	10-90%RH
Degree of protection (IP)	IP20
Protection class	I

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### Electrical Parameter Output

Rated power [W]	2 – 14,7 W
Permissible voltage [V DC]	16 – 42 V
Output current [mA]	100 – 350 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]	0,1 A
Mains power factor [ $\lambda$ ]	≥0.94 @ 230 V <sub>ac</sub> & 100% Load
THD	≤15 %
Efficiency	≥84 % @ 350mA
Inrush current	≤60A & 350μs @ 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

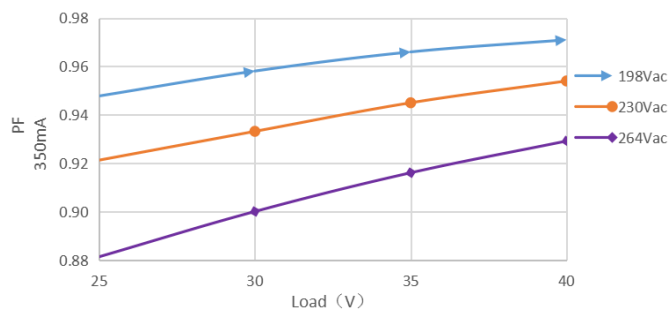
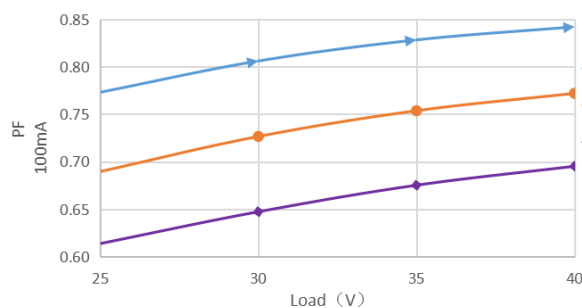
Parameter			DIP-Switches		
Min. Voltage	Max. Voltage	Current	1	2	3
16V	42V	350mA	—	—	—
16V	42V	300mA	—	—	ON
16V	42V	250mA	—	ON	—
16V	42V	200mA	—	ON	ON
16V	42V	150mA	ON	—	—
20V	42V	100mA	ON	—	ON

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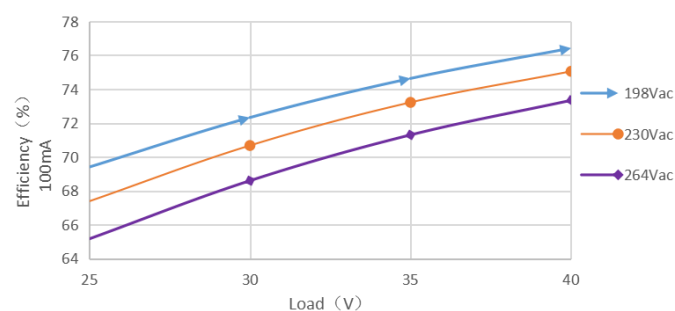
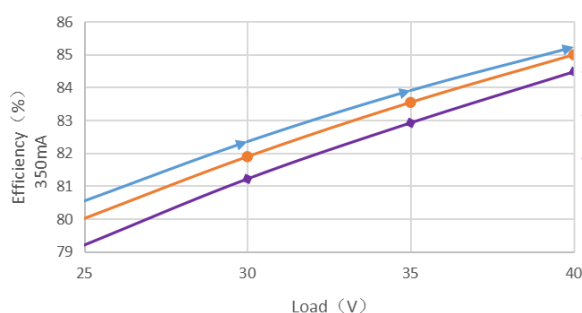
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### Electrotechnical Parameter

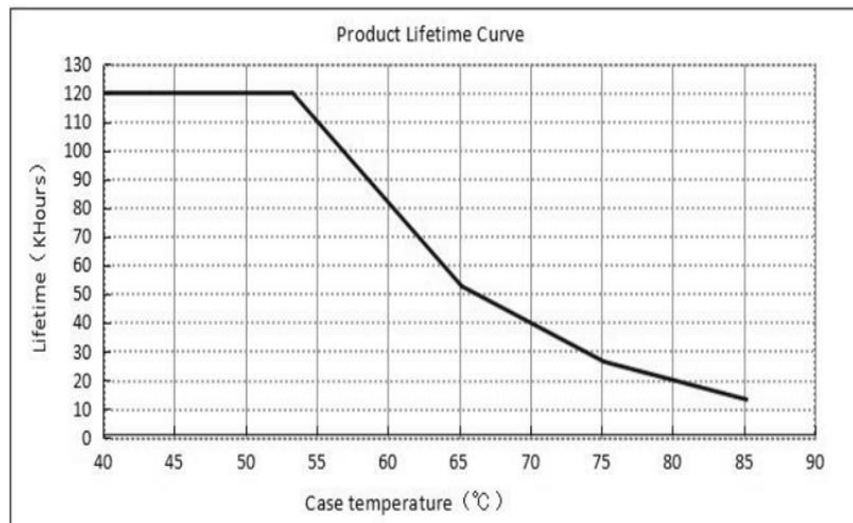
#### Mains power factor $\lambda$



#### Efficiency



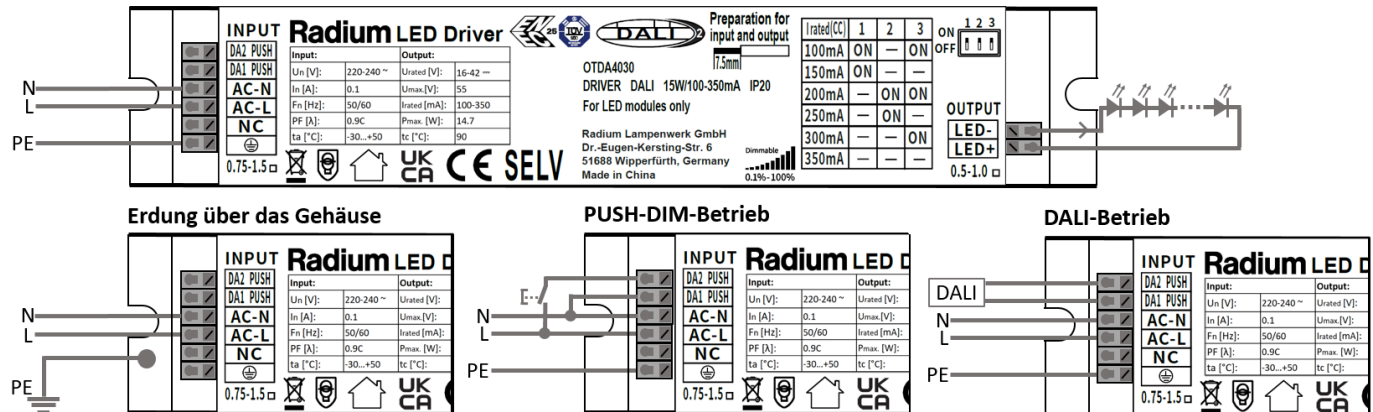
#### Service Life



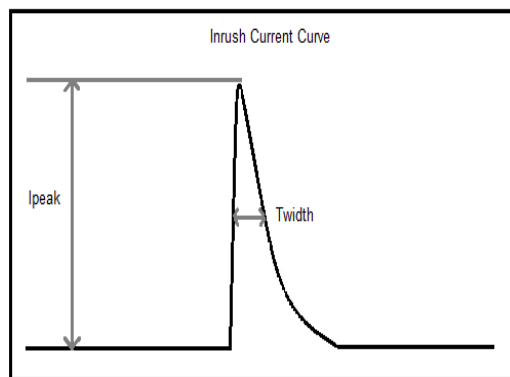
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### Wiring diagram



### Fuse rating



Characteristic	Current	Max. no. of devices
B	10A	40
	16A	64
	20A	80
	25A	100
C	10A	66
	16A	108
	20A	133
	25A	166
$I_{peak} / T_{width}$		

### 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 level of the push dimming is 4% ( $I_{out}$ ).
- 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 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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