

**Driver LCA 50W 350–1050mA DT8 Ip PRE**

Tunable White

New

**Product description**

- \_ Dimmable built-in constant current 2-channel LED Driver with DALI DT8
- \_ Adjustable output current between 350 and 1,050 mA for each channel via I-select 2 plugs or DALI
- \_ Max. output power 50 W
- \_ Up to 89 % efficiency
- \_ Power input on stand-by < 0.25 W
- \_ Dimming range 3 to 100 %
- \_ Suitable for luminaires of protection class I and protection class II (see data sheet chapter 3.4 for details)
- \_ Nominal life-time up to 100,000 h
- \_ 5-year guarantee

**Housing properties**

- \_ Low profile metal casing with white cover
- \_ Type of protection IP20

**Interfaces**

- \_ one4all (DALI DT8, DSI, switchDIM, corridorFUNCTION V2)
- \_ colourSWITCH
- \_ Terminal blocks: 0° push terminals

**Functions**

- \_ Adjustable output current (DALI, I-select 2)
- \_ Constant light output function (CLO)
- \_ colourSWITCH with predefined colours
- \_ switchDIM and colourSWITCH with memory function
- \_ Power-up fading and fade to zero
- \_ Configurable via DALI
- \_ Protective features (overtemperature, short-circuit, overload, no-load, reduced surge amplification)
- \_ Suitable for emergency escape lighting systems acc. to EN 50172

**Benefits**

- \_ Application-oriented operating window for maximum compatibility
- \_ Best energy savings due to low stand-by losses
- \_ Flexible configuration via DALI and I-select 2

**Typical applications**

- \_ For linear/area lighting in office applications
- \_ Tunable white application

**Website**

<http://www.tridonic.com/28001909>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

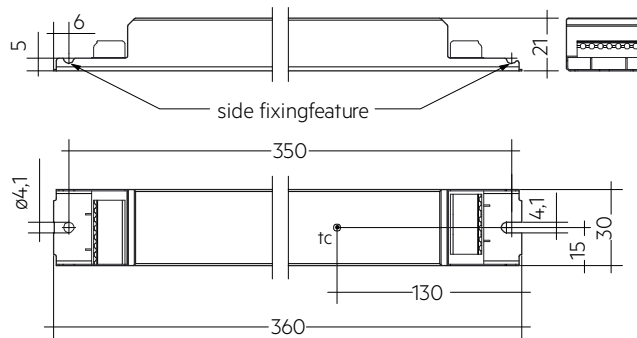


High bay

## Driver LCA 50W 350-1050mA DT8 Ip PRE

Tunable White

The complete data sheet for this product is available in the Downloads section.



## Ordering data

Type	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
LCA 50W 350-1050mA DT8 Ip PRE	28001909	10 pc(s).	760 pc(s).	0.252 kg

## Technical data

Rated supply voltage	220 – 240 V
AC voltage range	198 – 264 V
DC voltage range	176 – 280 V
Mains frequency	0 / 50 / 60 Hz
Overvoltage protection	320 V AC, 48 h
Typ. current (at 230 V, 50 Hz, full load) <sup>①②</sup>	105 – 252 mA
Typ. current (220 V, 0 Hz, full load, 15 % dimming level) <sup>②</sup>	47 mA
Leakage current (at 230 V, 50 Hz, full load) <sup>①②</sup>	< 500 A
Typ. efficiency (at 230 V, 50 Hz, full load) <sup>②</sup>	89 %
$\lambda$ (at 230 V, 50 Hz, full load) <sup>①</sup>	> 0.97
Typ. power input on stand-by <sup>③</sup>	< 0.25 W
Typ. input current in no-load operation	22 mA
Typ. input power in no-load operation	< 0.5 W
In-rush current (peak / duration)	29 A / 180 s
THD (at 230 V, 50 Hz, full load) <sup>①</sup>	< 10 %
Time to light (at 230 V, 50 Hz, full load) <sup>①</sup>	< 0.6 s
Time to light (DC mode)	< 0.3 s
Switchover time (AC/DC)	< 0.2 s
Turn off time (at 230 V, 50 Hz, full load)	< 20 ms
Output current tolerance <sup>①④</sup>	$\pm$ 3 %
Max. output current peak (non-repetitive)	$\leq$ output current + 20 %
Output LF current ripple (< 120 Hz)	$\pm$ 4 %
Max. output voltage (no-load voltage)	60 V
Dimming range	3 – 100 %
Colour tuning range	2,700 – 6,500 K
Mains surge capability (between L - N)	1 kV
Mains surge capability (between L/N - PE)	2 kV
Surge voltage at output side (against PE)	< 500 V
Dimensions L x W x H	360 x 30 x 21 mm

## Approval marks



## Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, EN 62386-101, EN 62386-102, EN 62386-207, Acc. to EN 50172, Acc. to EN 60598-2-22

## Specific technical data

Type	Output current <sup>①</sup>	Min. forward voltage	Max. forward voltage	Max. output power	Typ. power consumption (at 230 V, 50 Hz, full load)	Typ. current consumption (at 230 V, 50 Hz, full load)	tc point max.	Ambient temperature ta	I-select 2 resistor value <sup>②</sup>
LCA 50W 350-1050mA DT8 Ip PRE	350 mA	20 V	50.0 V	17.5 W	21.1 W	105 mA	75 °C	-25 ... +55 °C	-
LCA 50W 350-1050mA DT8 Ip PRE	400 mA	20 V	50.0 V	20.0 W	23.9 W	116 mA	75 °C	-25 ... +55 °C	12.50 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	450 mA	20 V	50.0 V	22.5 W	26.4 W	126 mA	75 °C	-25 ... +55 °C	11.11 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	500 mA	20 V	50.0 V	25.0 W	29.1 W	137 mA	75 °C	-25 ... +55 °C	10.00 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	550 mA	20 V	50.0 V	27.5 W	31.8 W	148 mA	75 °C	-25 ... +55 °C	9.09 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	600 mA	20 V	50.0 V	30.0 W	34.4 W	159 mA	75 °C	-25 ... +55 °C	8.33 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	650 mA	20 V	50.0 V	32.5 W	37.1 W	170 mA	75 °C	-25 ... +55 °C	7.69 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	700 mA	20 V	50.0 V	35.0 W	39.7 W	182 mA	75 °C	-25 ... +50 °C	7.14 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	750 mA	20 V	50.0 V	37.5 W	42.2 W	193 mA	75 °C	-25 ... +50 °C	6.67 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	800 mA	20 V	50.0 V	40.0 W	45.2 W	204 mA	75 °C	-25 ... +50 °C	6.25 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	850 mA	20 V	50.0 V	42.5 W	47.9 W	216 mA	75 °C	-25 ... +50 °C	5.88 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	900 mA	20 V	50.0 V	45.0 W	50.5 W	227 mA	75 °C	-25 ... +50 °C	5.56 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	950 mA	20 V	50.0 V	47.5 W	53.4 W	239 mA	75 °C	-25 ... +50 °C	5.26 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	1,000 mA	20 V	50.0 V	50.0 W	56.1 W	251 mA	75 °C	-25 ... +50 °C	5.00 kΩ
LCA 50W 350-1050mA DT8 Ip PRE	1,050 mA	20 V	47.6 V	50.0 W	56.3 W	252 mA	75 °C	-25 ... +50 °C	0.00 kΩ

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Depending on the DALI traffic at the interface.

④ Output current is mean value.

⑤ The table only lists a number of possible operating points but does not cover each single point. The output current can be set within the total value range in 1-mA-steps.

⑥ Not compatible with I-select (generation 1).