



## SimpleLink DC CC LED Driver - Entry

**LD131Cn3**

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### Features

- DC 12...48V input.
- IP42, standby power 0.5W
- Detect LED open and short circuit.
- LED constant current output, max 1A, 45V, 45W.
- Global safety compliant, suitable for home and office.
- High-quality dimming of 0.1-100% by amplitude dimming.



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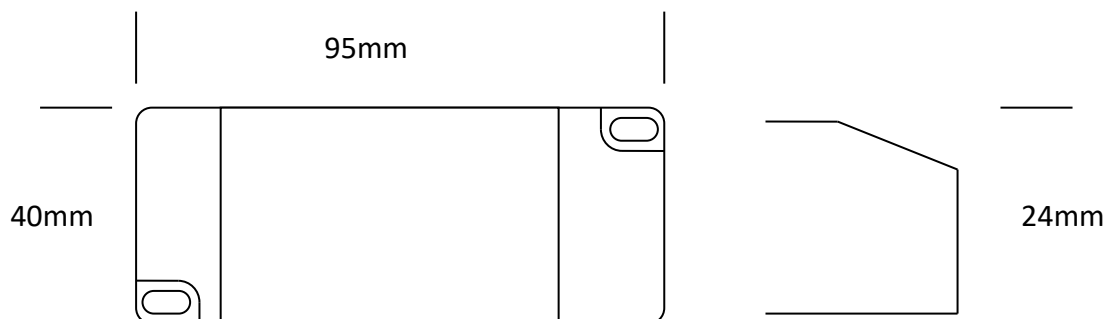
Email: [info@artilectgreen.com](mailto:info@artilectgreen.com)

## 2. Specification

### Technical Data

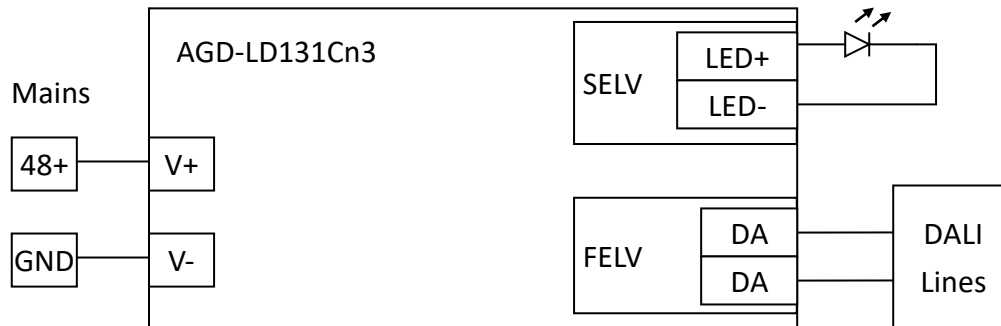
Model		AGD-LD131Cn3
Input	Voltage/Hz	DC, 12...48V
	Leakage	< 0.25mA
	Standby W	< 0.5W
Output	Voltage	3...Input - 3V
	Current	Nominal 0.1...1A, default 300mA, programmable
	Power	Max 45W
	PSTLM	<= 1
	SVM	<= 0.4
Protection	Short	Programmable protection point
	Open	Programmable protection point
	Load Change	None
	Isolation	Main input/output None, output/DALI FELV, main input/DALI FELV
Environment	Temperature	Ta: -30...+50°C, Tc: 70°C
	Humidity	20...95%, Non-condensing
	Storage	-40...+80°C, 10...95%, Non-condensing
Dimming	DALI	DALI-2 IEC 62386 101, 102, 207
	Dim Mode	Constant current, mixed dimming
Others	Det. & Data	None
	Dimension	95x40x24mm
	Weight	

### Dimension



## 3. Installation

### Wiring and circuit diagram



- For better EMC, keep wires between drivers and LEDs as short as possible.
- No invers-polarity protection of LEDs is supported.
- Wrong wiring of LED drivers may damage the driver, LEDs, and DALI bus.
- The wiring must be short-circuit protected from earth wire, to avoid dysfunction and damage.

### Hot plug-in

Hot plug-in is not recommended due to the driver's residual output voltage. Hot plug-in will cause high inrush current and damage the LEDs. Power-off and 15 seconds of cold down is recommended for the installation.

### Usage and install

Good ventilation and 10...15 cm distance from heat source is recommended.

### LED current adjust

The LED driver's output current can be programmable with SmartLink tool. The minimum output current is varied over LED voltage. Please, check its operating window for its limitation.

## 4. Functions

### Short-circuit protection

A short circuit at LED output will trigger the driver's safeguard and turn off its output. It can be restarted by reset its mains or dim off-and-on with DALI tools.

## Open-circuit/no-load protection

An Open circuit at LED output will also trigger its safeguard and turn off its output. It can be restarted by reset its mains or dim off-and-on with DALI tools. Its output will constantly lower to about zero voltage. No-load or open-circuit will not cause harm to the driver, however, a hot-plug or change of LED engine or luminaires are not recommended. Residual voltage will cause permanent damage to LEDs.

## Software

This driver is supported by SmartLink configuration tool. You can use SmartLink tool to download and program its parameters such as output current, thermal protecting point, dimming frequency and or many others.

## 5. Others

### Warning / Caution !!

- Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!
- The openings should be protected from foreign objects or dripping liquids.
- Please do not install LED power supplies in places with high ambient temperature or close to fire source. Please refer to the specifications about the maximum ambient temperature limitations.
- Output current and output wattage must not exceed the rated values on the specifications.
- If the external flexible cable or cord of this switching power supply is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.
- LED power supply needs to be disposed together with lighting equipment after the end of its life.
- The DALI is designed as FELV circuit, its terminal shall connect to FELV circuit. Connecting to SELV will lower its isolation level to FELV.