Features

- DC 12…24V input.
- IP42, standby power 0.5W.
- LED CV PWM output, max 6A/each.
- LED Protection: LED open, short, load changes, etc.
- Thermal Protection: Auto reduce, and cut-off on overheat
- Support DALI Data including, input/output power, time, etc.
- Supports IEC 62386 101, 102
- Global safety compliant, suitable for home and office.
- High-quality dimming of 0.1-100% by amplitude dimming.

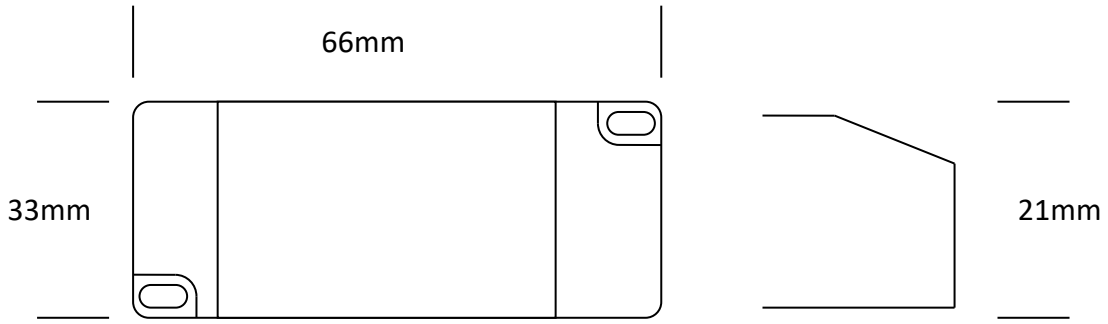
Artilect Green Co., Ltd. http://www.artilectgreen.com
Tel: +886-2-2597-6188 Email: info@artilectgreen.com
6F., No. 34-1, Jiuquan St. Datong Dist., Taipei City 10367, Taiwan

2. Specification

Technical Data

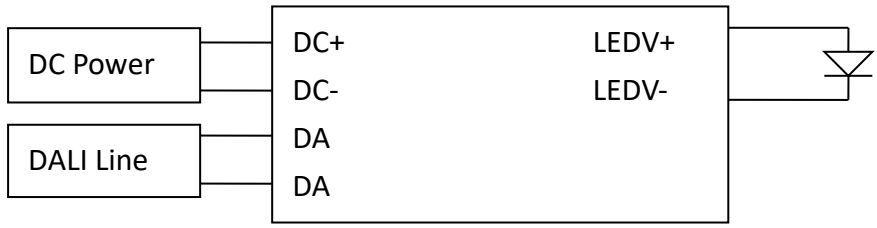
Model		AGD-LD631VA2
Input	Voltage/Hz	DC, 12…24V
	Leakage	< 0.25mA
	Standby W	< 0.5W
Output	Voltage	= Input
	Current	Max 6 A
	Power	144W
Protection	Short	Programmable protection point
	Open	Programmable protection point
	Load Change	Programmable protection point
	Isolation	Main input/output None, output/DALI FELV, main input/DALI FELV
Environment	Temperature	Ta: -30...+50℃, Tc: 70℃
	Humidity	20...95%
	Storage	-40...+80℃, 10...95%
Dimming	DALI	DALI-2 IEC 62386 101, 102, 207, 251, 252, 253
	Dim Mode	PWM
Others	Det. & Data	Input/Output power, accumulated power, on time, etc.
	Dimension	66x33x21mm
	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.
- A fuse is installed between DC+ and LEDV+. Do not wire DC positive pole to LEDV+ directly to bypass the fuse.
- Good ventilation and 10…15 cm distance from heat source is recommended.

Short-circuit protection

Short circuit protection is triggered by over high-current protection, and turns off its output. If short current is over the device's limit, its fuse will burn down, and permanent damage may be caused.

Open-circuit/no-load protection

An Open circuit at LED output will trigger its safeguard, and the driver will report lamp error. Open circuit may not cause the output to be turn off.

Power metering

The driver will monitor and accumulate its input and output power and save to its EEPROM. The driver is designed to accumulate and save the data at 60 second period for 10 years. A power interrupt may cause missing of some accumulated data.

Health diagnostic

The driver's electronic output and input data are measured and readable via DALI data protocol. These data are monitored at run-time and valid after 60 seconds of power-up.

Software

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

4. 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 input 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.