RGB LED Strip(14.4W/M)

Datasheet



LC3144

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Before using this product, please read this datasheet carefully and keep it properly!

Document Version：C

◇◆ Overview

RGB LED Strip(14.4W/M) is an ultra-thin and high-efficiency LED strip. It features a pre-applied high-performance 3M double-sided tape on the back for quick and secure installation.

Note：

- In practical applications, the power supply should have a 20% margin (it is recommended to only use 80% of the power) to ensure sufficient voltage to drive the product.
- Please note that the pictures and illustrations provided in this instruction manual are for reference purposes only, and the actual product may differ.

◇◆ Appearance



Figure 1

◇◆ Technical Data

Item	Parameter
Rated power	14.4W
Input voltage	DC24V
CRI	CRI 90
M/Roll	5M
LED Qty/m	60LEDs/m
Service life	30000H
Working Temperature	-20°C~45°C
DMX512	10 pixels/meter
Installation	Pasting

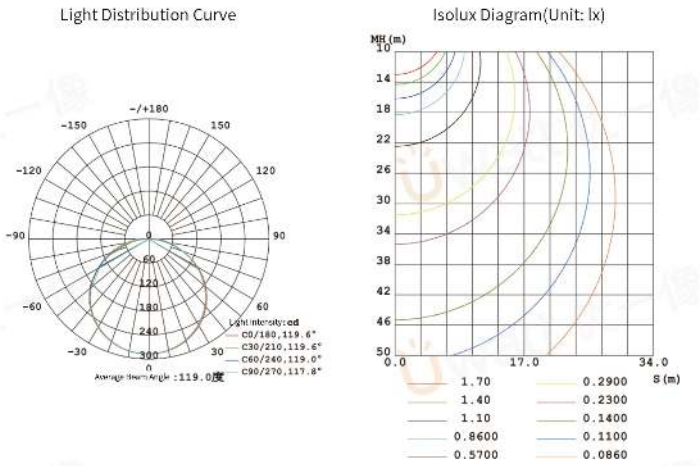


Figure 2

◇◆ Specifications

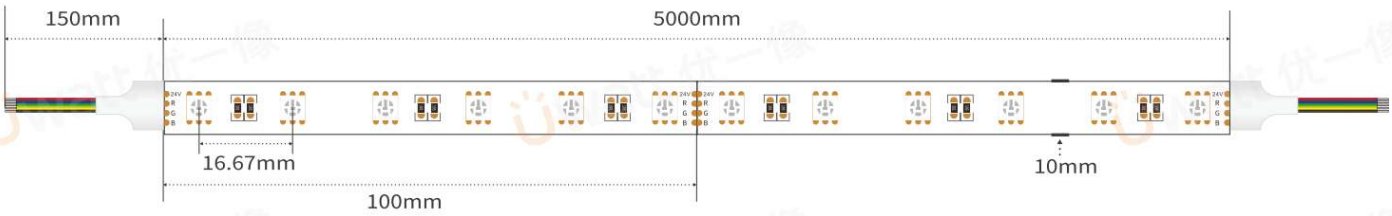


Figure 3

◇◆ Safety Precaution

Danger:

- Please do not privately disassemble or replace any parts of the product. Otherwise, it may cause mechanical fault, electric shock, fire or personal injuries.
- Under no circumstances should the product be covered by insulation pads or similar materials.

Warning:

- The installation and testing for the product must be carried out by HDL Automation Co., Ltd. (hereinafter referred to as HDL) or its appointed service agencies. The electric construction shall comply with local laws and safety regulations.
- HDL will not be responsible for any consequence caused by the inexpert or faulty installation and wiring methods, which are not in accordance with the instructions contained in this datasheet.
- Please contact HDL after-sales departments or our designated service agencies for your maintenance service. Product failures caused by private disassembly are not subject to the warranty.

Caution:

- Before performing any installation or disassembly procedures on the device, it is crucial to disconnect the device from all

voltage sources. This step is necessary to ensure the safety of the technician and prevent any potential damage to the device.

- Do not use corrosive liquid to wipe the device body, especially the interface, so to avoid damage to the device. Do not wipe the device with a damp cloth.
- Before performing any maintenance or cleaning procedures on the device, it is imperative to disconnect the device from all voltage sources. This precautionary measure is necessary in order to prevent electric leakage and the risk of electric shock.
- After all of the cables are terminated, check for correct and good terminations.
- Overrange is not allowed. Please use the device in accordance with the technical specifications.

Note:

- Please use a 24V DC isolated power supply to drive LED light strips, and the ripple of the constant voltage source should be less than 5%. Resistive capacitive voltage reduction, non isolated, and other types of power supplies should not be used to drive LED light strips.
- To ensure the lifespan and reliability of the light strip, please do not bend it in an arc with a diameter of less than 60mm, and do not fold it in half to avoid damaging or breaking the light beads.
- To ensure the lifespan and usage environment of the LED strip, do not forcefully pull or tug on the power cord during use, and do not collide to avoid damaging the LED light.
- During installation, pay attention to the correct wiring of positive and negative poles of the power cord, and ensure that the voltage of the power supply is consistent with that of the product to avoid product damage.
- LED light strips should be stored in a dry and sealed environment. It is recommended that the storage period should not be too long. Please open the seal before use. The working environment temperature is -20 ℃~45 ℃, and the storage temperature is 0 °C~60 ℃. Non waterproof light strips should be used indoors, and the relative humidity should not exceed 70%.
- Please be careful during operation and do not touch the AC power end when the power is connected to prevent electric shock.
- In practical applications, the power supply should have a 20% margin (it is recommended to only use 80% of the power) to ensure sufficient voltage to drive the product.
- It is strictly prohibited to use any acidic or alkaline adhesives to fix products (including but not limited to glass glue, etc.).

◇◆ Wiring

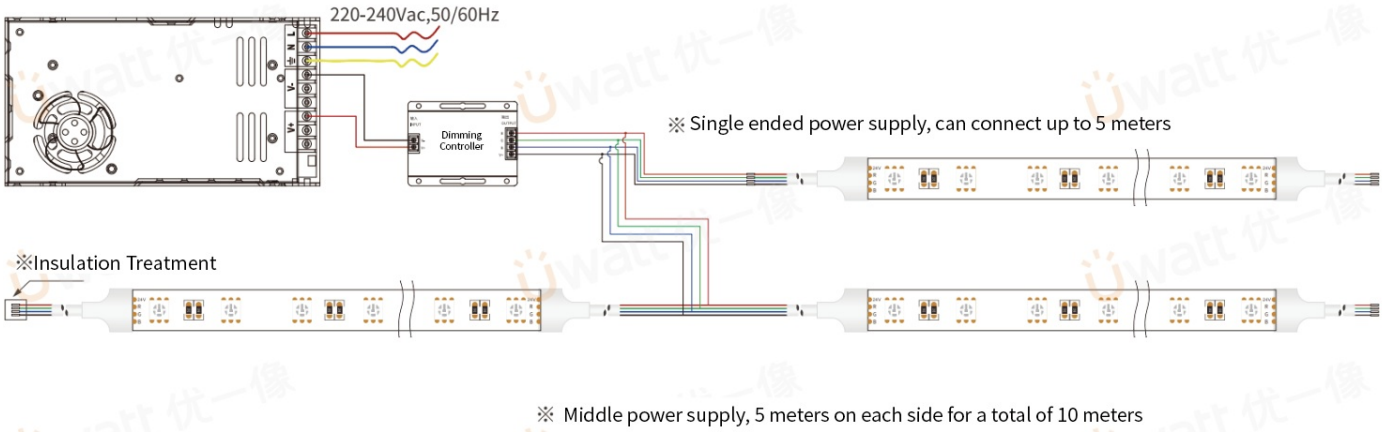


Figure 4

◇◆ Installation

Warning:

- Before performing any installation or disassembly procedures on the device, it is crucial to disconnect the device from all voltage sources. This step is necessary to ensure the safety of the technician and prevent any potential damage to the device.
- Connect the wires according to the positive and negative leads of the LED driver, and do not connect them in reverse.

Installation: Please apply 3M tape to the back of the light strip and attach it to the desired location.

◇◆ Disassembly

Warning: Before disassembling, please cut off the power supply, and operation with electricity is prohibited.

◇◆ Packing List

- LED Strip*1

Note: After unpacking, please check if the product and the parts are complete.

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Update History:

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Version	Update Information	Date
V1.0	Initial release	Sept 30, 2025

◇◆ Technical Support

E-mail: hdltickets@hdlautomation.com

Website: https://www.hdlautomation.com