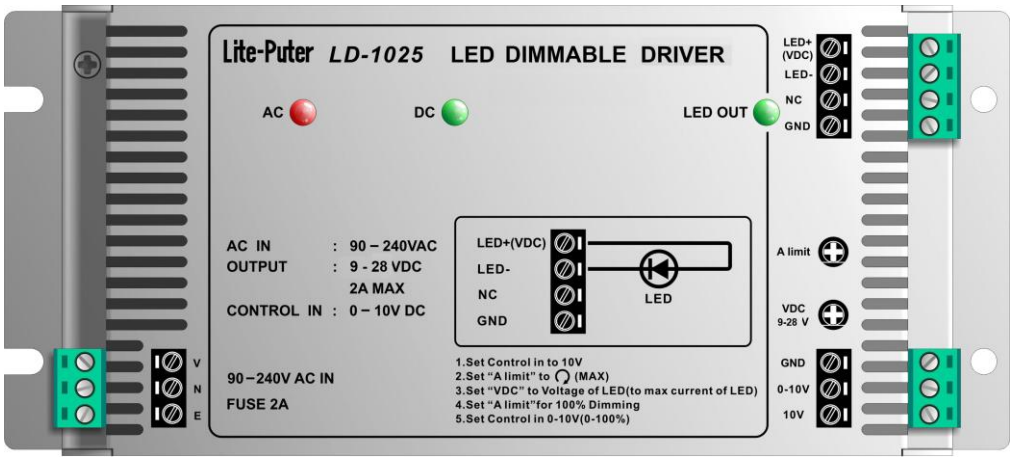
ISO 9001 CERTIFIED

# LD-1025

## LED Dimmable Driver

## 【User Manual】

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# 1 Introduction

## 1-1 Features

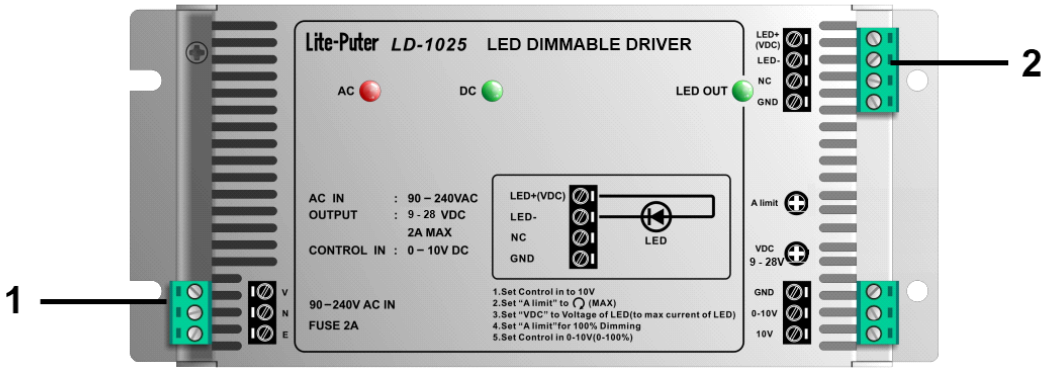
1. Precise 0 - 100% dimming effect, no flickering even at the lowest dimming level.
2. Adjustable constant voltage output (DC 9V - 28V)
3. Current limit adjustable (100mA – 2000mA).

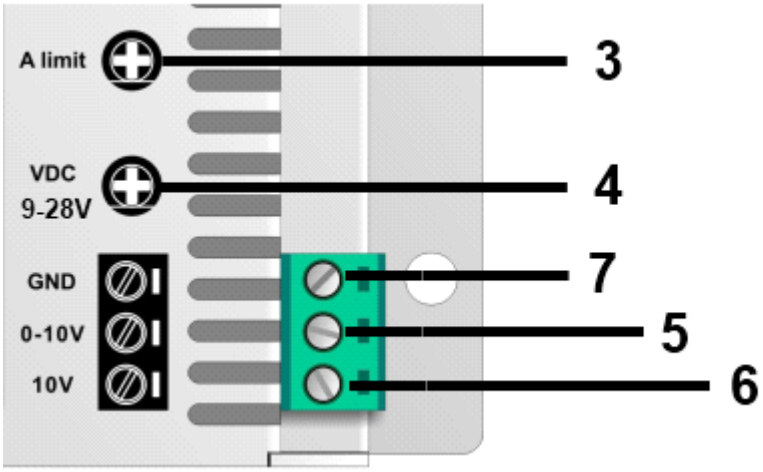
## 1-2 Specifications

1. AC Input: 90 – 240V AC
2. DC Output: 9 – 28V DC adjustable (constant voltage)
3. Dimming Control: 0 - 10V DC
4. Connector: 3-pin/4-pin green terminal
5. Dimension: 192 (W) * 86 (H) * 44 (D) mm
6. Weight: 390g

## 1-3 Front Side

1. AC 90 - 240V Input
2. LED Output.
3. Current Limit VR (A Limit)
4. Voltage Output VR (VDC 9 – 28V)
5. DC 0 - 10V Input
6. DC 10V Output
7. DC GND






# 2 Setting

*LD-1025 is a **constant voltage** LED dimmable driver. Connect identical LED lamps in parallel is preferred.*

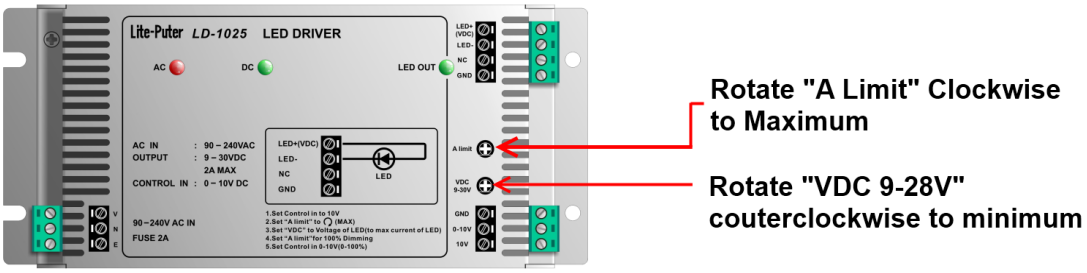
## 2-1 Step-by-Step Setting

***IMPORTANT: A current/voltage meter is required to do the following setting.***

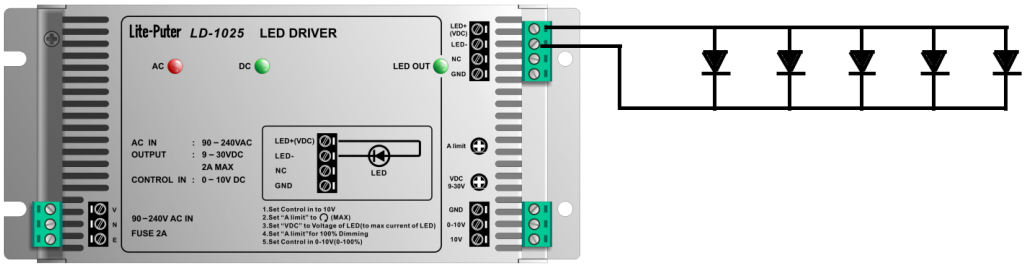
***Example: Connecting 5 pieces MR-16 (350mA, 12V) in parallel.***

1. Adjust **“A Limit”** (current limit) to **maximum** by rotating the VR (variable resistor) clockwise to the end.
   *(The output current is not required to limit at this time.*)

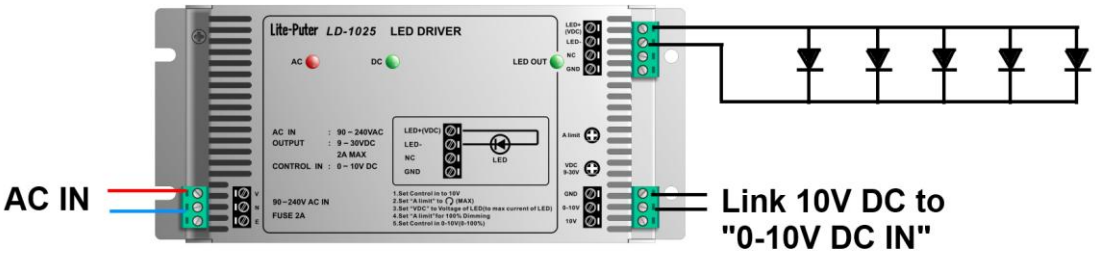
2. Adjust **“VDC 9 - 28V”** to **minimum** by rotating the VR counterclockwise to the end.



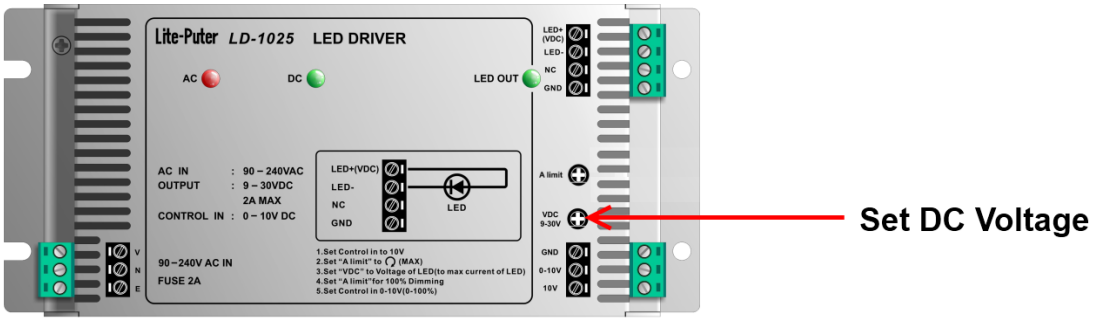
3. Connect the LEDs




4. Connect AC power to **“AC IN”**, and connect external **10V DC t**o **“0- 10V DC IN”.**




5. Adjust **“VDC 9 - 28V”** to make sure output current equal to (or lower than) rated current of the LEDs (in this example: 350mA x 5 = 1750mA).

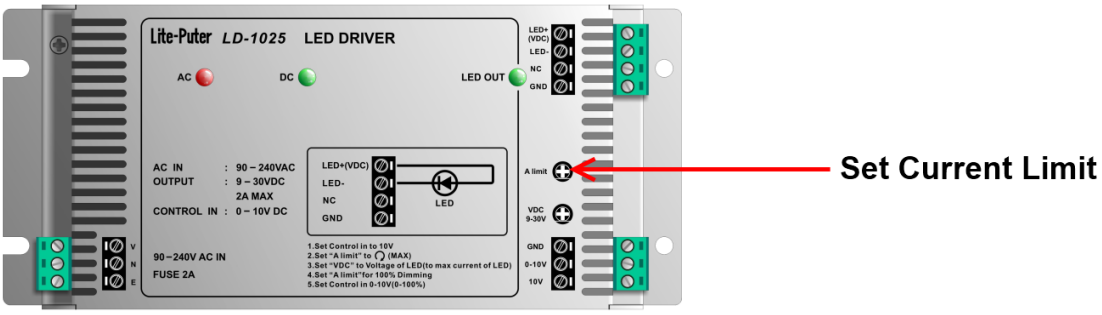



***※ DO NOT make output current more than rated current of LEDs. Otherwise, the LED lamps might malfunction or the life time of LEDs will be shortened.***

***※ While some specifications of MR-16 LEDs indicates that the rated voltage is 12V DC, it is actually between 10 -12V DC, not exactly 12V DC. Therefore, simply setting output voltage as specifications of LED lamps is not recommended.***

6. Set **"A Limit"** (current limit) exactly equal to the rated current of the LEDs:

***Tips: Rotate "A Limit" counterclockwise to 99% of rated current, about 1740mA. And then rotate "A Limit" clockwise to 100% rated current (1750mA). By this way, LD-1025 is exactly1750mA.***




※ ***You can set current limit below rated current (in this case, below 1750mA) to further protect LED lamps.***

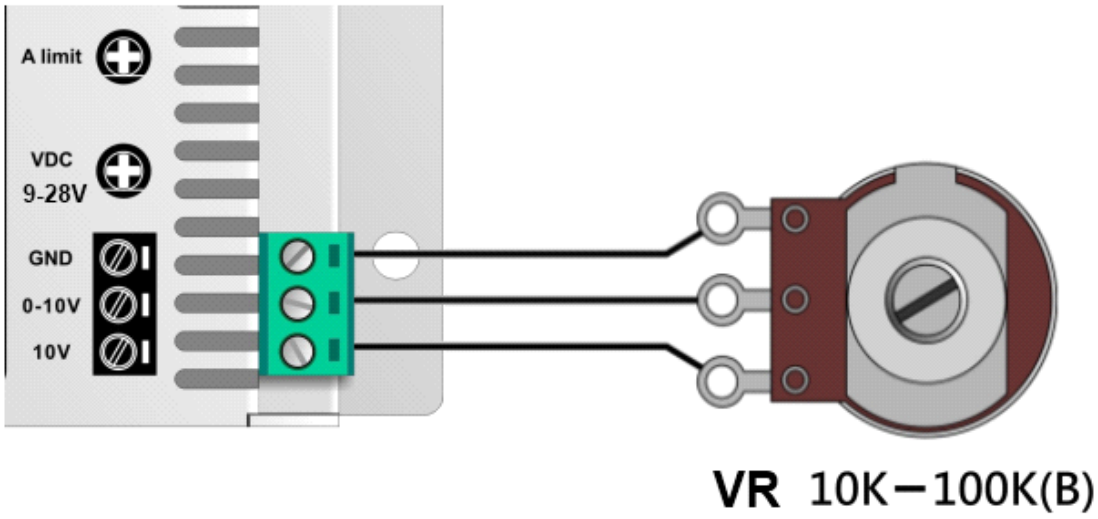
7. ***Done. Change 0-10V DC input to dim the LEDs.***

***In some applications, setting current limit below the rated current of the LEDs might be desirable. For example, if output current is not limited, the maximum number of MR-16 can be connected is 5 (350mA x 5 = 1750mA < 2000mA). If the output is limited to 2000mA, 8 MR-16 LED can be connected in parallel (each one is 350mA, 12V). By this way, the current through each MR-16 LED is 250mA (2000mA / 8).***

## 3. How to Dim by an External Variable Resistor

LD-1025 itself has a DC 10V output. It can be dimmed by connecting a variable resistor (VR). External DC 10V Input is not necessary.

### The wiring diagram to an external VR to control dimming:



# Limited Warranty

1. Lite-Puter is only responsible for the product itself.
2. Lite-Puter guarantees to keep Lite-Puter's from manufacturing defects within a year since the distributing date.
3. Lite-Puter does not offer on-site service. If the defects appear in Lite-Puter's product, please deliver the product to local distributors or to Taipei headquarters.
4. The warranty does not cover:
    a. Any fault caused by false usage, imprudence (collision, inadequate installation or adjustment, insufficient ventilation, or improper repairs)
    b. Force majeure factors (flooding, earthquake, volcanic eruption, or other factors beyond Lite-Puter control).
    c. The cost of installing, reinstalling, adjusting, repairing, or reprogramming the product.
    d. Other products or devices which are offered by Lite-Puter or not by Lite-Puter.
5. Lite-Puter does not warrant the product will operate without interruption or being free of error.

Revision Record

| Version | Record |
|---|---|
| A | First issued |
| B | Edit Output Voltage |

Issued: 2011/06