

**FUJI CO., LTD**

1F, NO.32, JIANGUO N. RD., JUNGLI CITY.TAOYUAN, TAIWAN 320, R.O.C.

TEL : 886-3-425-4927

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# **SPECIFICATION**

**P/N: Alva-DL700-08D**

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### Description

The [Alva-DL700-08D](#) Dimmable/Controllable Constant Current Output drivers provide the 0-700mA constant DC current output required to enhance the long life and optimum operation of high brightness LEDs, thanks to the CCD (Constant Current Driver) design control the output current not exceed the 700mA, which are normally the suggested Max current for 3W and 5W high-power/high-brightness LEDs.

The [Alva-DL700-08D](#) has an EN pin for (PWM) dimming control input. Also, the EN pin is a digital input that turns the Driver on/off; driver EN high to turn on the Driver, drive it low to turn it off. You can control the frequency of the "ON" and "OFF" by the PWM digital signal input, then the brightness/luminosity of the/every LEDs will be different by the means of changing the frequency of the "ON" and "OFF".

### Features

- Small/Compact size
- DC constant current output
- Power Efficiency
- Reliability
- Short and open circuit protected
- Fully isolated output
- Can be integrated into any LED lighting system
- Compliant with all colours of standard and custom high power light sources

### Benefits

- Light weight
- Enhance the value of your products
- Provides flexibility to designers
- Support all LEDs
- It is a hazard free product
- It can be integrated in practically any LED lighting system
- Facilitates new fixture design
- Facilitates low profile fixture design
- No binning of LEDs results in cost savings
- Allows use in any indoor and outdoor applications
- Drivers last as long as LEDs
- Optimization of the usage of the system power

### Typical Applications

- Reading lights (Desk, Car, bus)
- Torch (Flash light)
- MR-16
- Portable (Car, bicycle, Motorcycle)
- Architectural lighting
- Garden lighting
- Marker & Orientation lights
- Reading lamps
- Cove lighting
- Cornice lighting
- Landscape lighting
- Refrigeration
- Vending machine lighting
- Wall sconces
- Under-cabinet lighting
- Spots Lights
- Signalling
- Fibre Optic systems
- Point of Sale
- Signage
-

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Selection Guide	
Part Number	Description
Alva-DL700-08D	4.75~16VDC/0~700mA Alva LED Driver with Dimming control utility.

Note:

- The number of LEDs illuminated per driver depends on the driver input voltage ( $V_{in}$ ). The driver input voltage must be **greater than or equal to** the sum of the LED's maximum forward voltage rating + 0.75. ( $V_{in} = V_{out} + 0.75$ )
- The output power is typically 1W~10W but may exceed 10W conditionally. (Contact our engineer for the detail)

Electrical characteristics		
<i>Input</i>		
Parameter	Min	Max
Input Voltage Range	4.75Vdc	16Vdc
EN input voltage	0	16Vdc
EN Trip Level	$V_{IH}=2.0V$	$V_{IL}=0.5V$
Efficiency	70%	95%
<i>Output</i>		
Parameter	Min	Max
Output Current	0mA	700mA
Output Voltage Range	0Vdc	15.25Vdc

Notes:

- Electrical characteristics at 25 °C ambient temperature.

**Important:** Please contact our engineer to ensure installation and maintenance being properly executed to obtain maximum performance, efficiency and durability from the LED lighting product.

**Disclaimer:** While every care has been taken with the details on this specification sheet, we accept no responsibility for any inaccuracies and reserve the right to change these specifications without notice to always ensure that you are receiving a superior product.

Environmental Ratings		
Parameter	Min	Max
Operating Ambient Temperature	-10	60
Storage Ambient Temperature	-20	80

### Driver wiring Diagram

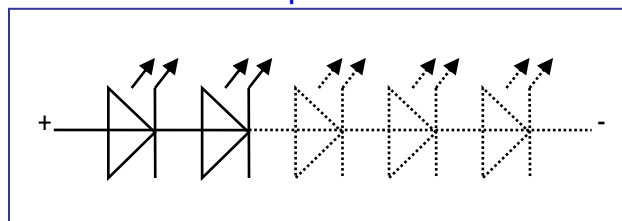
**Dimension : 22 mm (L) x 11mm (W)**

Note: the dimension, shape and layout can be customized in order to fit your mechanical design.



Configuration arrays when using LEDs with Alva Drivers:

With the 0~700mA Output Current Alva:



To drive at 0~700mA/LED: from 1 to 5 LEDs in series

Notes:

- The number of LEDs in series depends on the forward voltage,  $V_f$ , of the LEDs, and may be more than 5 LEDs in series conditionally. (Contact our engineer for the detail)
- The R, G, B, W and other colour LEDs can be mixed in series.