



Figure 1. 3CH 650mA LED Driver

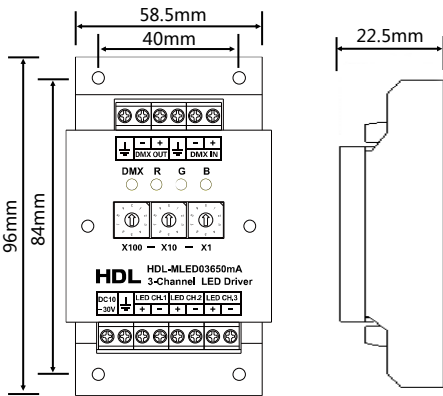


Figure 2. Dimensions - Front View Figure 3. Dimensions - Side View

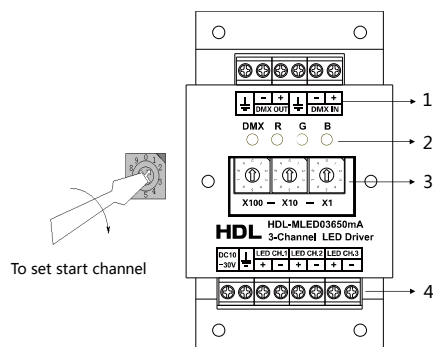


Figure 4. Components - Front View

Overview

3CH 650mA LED Driver (See Figure 1) is the 3 channels LED driver with DMX512 interface. The driver has 3 constant voltage channels with PWM output for dimming, and RGB LED strip for changing color.

Functions

- 3 outputs for common anode RGB LED strip and single LED
- Working voltage: 12-30V DC
- Control Signal: DMX512
- Constant voltage with PWM output
- DMX output Port with DMX512 signal driven Amplifier

Important Notes

- DMX cable - Shielded twisted cable, less than 200m.
- Installation - Wall mount
- Common cathode RGB LED not supported
- Ensure correct DMX address before using

Product Information

Dimensions - See Figure 2 and 3

Components - See Figure 4

1. DMX terminal

DMX IN has three terminals, data+, data- and com (\ominus)

DMX OUT has three terminals, data+, data- and com (\ominus)

2. LED indicator DMX,R,G,B

DMX indicator for CPU/DMX. This indicator will flash at an interval of 2 seconds if no DMX signal received, and flash faster if this LED driver receives DMX signal.

R indicator for CH.1, this indicator will turn ON if control level on CH.1 is more than 0%

G indicator for CH.2, this indicator will turn ON if control level on CH.2 is more than 0%

B indicator for CH.3, this indicator will turn ON if control level on CH.3 is more than 0%

3. DMX start address setting switch and special functions

There are X100, X10, X1 for DMX address, X100 is the highest, X10 is the middle, X1 is the lowest. For example: X100 is 2, X10 is 7, X1 is 6, so the address is 276 (100*2+10*7+6), and the valid address is 1-512.

Special feature setting: It is used for testing output and output result.

Setting and output status is as follows:

Address 513 output CH.3

Address 514 output CH.2

Address 515 output CH.1

Address 516 output CH.1, CH.2, CH.3

Address 517 take turns output CH.1, CH.2, CH.3

4. Terminal for Input power and LED output

Working voltage: 12-30V DC

LED output: Supports common Anode RGB LED strip and separately LEDs

Safety Precautions

- The installation and commissioning of the device must be carried out by HDL or the organization designated by HDL. For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- HDL does not take responsibility for all the consequences caused by installation and wire connection that are not in accordance with this document.
- Please do not privately disassemble the device or change components, otherwise it may cause mechanical failure, electric shock, fire or body injury.
- Please resort to our customer service department or designated agencies for maintenance service. The warranty is not applicable for the product fault caused by private disassembly.

Package Contents

HDL-MLED03650mA *1 / Datasheet*1

Technical Data

Basic Parameters

Working voltage	12~30V DC
Input signal	DMX512
Power consumption without load	<2W
Output channel	3 channels
Max current of each channel	650mA

External Environment

Working temperature	-5°C~45°C
Working relative humidity	≤90%
Storage temperature	-20°C~60°C
Storage relative humidity	≤93%

Specifications

Dimensions	96mm×58.5mm×22.5mm
Net weight	150g
Housing material	Aluminum
Protection rating (Compliant with EN 60529)	IP20

Name and Content of Hazardous Substances in Products

Components	Hazardous substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Chromium VI (Cr (VI))	Poly-brominated biphenyls (PBB)	Poly-brominated diphenyl ethers (PBDE)
Plastic	o	o	o	o	o	o
Hardware	o	o	o	o	-	-
Screw	o	o	o	x	-	-
Solder	x	o	o	o	-	-
PCB	x	o	o	o	o	o
IC	o	o	o	o	x	x

The symbol “-” indicates that the hazardous substance is not contained.

The symbol “o” indicates that the content of the hazardous substances in all the homogeneous materials of the component is below the limit requirement specified in the Standard IEC62321-2015.

The symbol “x” indicates that the content of the hazardous substance in at least one of the homogeneous materials of the part exceeds the limit requirement specified in the Standard IEC62321-2015.

Technical support

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