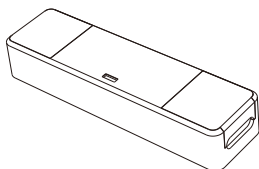


1-3 Channel CV PWM

LED Amplifier

Single color / Tunable white / RGB

Model: AN10 / AN20 / AN30 / [-S]



Full Protection



High Power



Function Indicator



Compact Size



Wide Voltage Range



Clip Cable Holder

accept DC power from 5V to 24V, the output voltage is the same as the power supply, so please make sure the LED rated voltage is same as the power supply.

Signal Input: Connect the LED driving signal to this connector. The signal could come from LED controller or LED loads, the driving signal voltage must be the same as the amplifier power voltage. Please make sure the common anode cable is connected to terminal marked with 'signal +' and signal for each channel connected to relevant input terminal.

2. LED output

Connect LED loads to this connector. Install LED common anode cable into the terminal marked with '+' and each channel LED cables into the terminal marked with relevant channel name. Please make sure the LED rated voltage is same as the power supply and each channel's maximum load current is below the amplifier rated current.

The amplifier will run into protection if the output been overloaded or short circuited. The indicator will flash red color and stop working in this case, Please check the wiring and load current to remove the fault.

3. Work status indicator

This indicator shows all working status of the amplifier. It displays different events as following:

Steady green: Normal working.

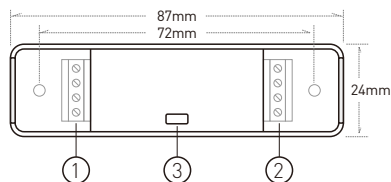
Red flash: Overload protection.

Yellow flash: Over heat protection.

■ Introduction

AN10-AN30 LED amplifier is designed to amplify constant voltage LED control signal and drive constant voltage LED products with common anode connection, the working voltage range is DC5-24V. This series amplifier has power input, signal input and LED output connectors with cable holder. The amplifier has full protection feature against overload, short circuit, over heat and wrong wiring. A multi-color indicator on the top displays all working status of the amplifier.

■ Dimension



■ Wiring & Indicator

1. Power supply and signal input

Power Input: Install positive power cable into the terminal marked with 'power +' and negative power cable into the terminal marked with 'power -'. The amplifier can

1

4. Protection feature

The amplifier has full protection function against wrong wiring, output short circuit, overload and overheat. The controller will protect itself from damage at these extreme conditions and could automatically recover when working condition is good.

To avoid the protection, please ensure the LED fixtures are capable for constant voltage driving and in rated range, the cables are well connected and insulated. Also please install the amplifier with good ventilation and heat dissipation condition.

■ Specification

Model	AN10	AN20	AN30
Function	Single Color	Tunable White	RGB
Working voltage	DC 5-24V		
Rated output current	1x10A, 1x15A[-S]	2x5A, 2x8A[-S]	3x4A, 3x6A [-S]
Standby current	<15mA		
Signal voltage range	Power voltage $\pm 3V$		
Time shift	< 5uS		
Output mode	PWM constant voltage		
Overload protection	Yes		
Overheat protection	Yes, protect at 90°C (internal temperature)		
Dimension	87x24x15mm		