

Product Specification



Model: CT-P03-A

Name: 3CH power supply amplifier
(built-in power supply)

Summary

This product is developed according to features and installing requirement of the popular LED power supply and amplifier in the market, which can simplify wiring arrangement and improve the functionality and stability of the LED power amplifier, connected directly with AC power, it can be matched with voltage input of any country. Signal input and load output can be directly connected with LED lights, which greatly simplifies the wiring arrangement and improves the products functionality. When Matched power supply amplifier with the LED controller, more LED lamps or strips can be connected. And certain range uniform control and LED power amplifier can be achieved. This output can be matched with all kinds of low-voltage RGB lights, such as RGB rigid light strip, flexible light strip, RGB panel light, RGB modules and so on .

Features

- 1.Adopt switch power supply and LED power amplifier integrated technology for Stable function and great simplified installation.
- 2.Short-circuit protection to avoid damage to controller caused by wrong connection among wires, controllers and power supply.
- 3.Auto adaptation of AC80V~265V, 50~60Hz input voltage.
- 4.Auto adaptation of any dimmable frequency and output luminance, no need of adjustment of line-sequence.
- 5.Unique signal amplifying and LED driving technology, which guarantees the low voltage drop of signal input and output.
- 6.Strong durability for low temperature,the controller can work normally in extremely low temperature environment.
- 7.High power dimmer control MOS tube with stable and reliable performance.
- 8.When the signal input becomes one channel, the output power can be multiplied by adopting output parallel.
- 9.Smart appearance, standard input and output interface, easy wiring arrangement, easy installation.

Applications

Matched with the LED controller, it can be widely used in occasions as follows :

- 1.Construction decoration:commercial buildings, airports or subways.
- 2.Indoor decoration:hotels, shopping malls, squares, restaurants, bars, houses.
- 3.Outdoor decoration: advertising boards, parks, bridges, roads and overpasses, scenic spots.
- 4.Others: Decorating for motor vehicles, samples reveal ark and other places needing RGB lights.

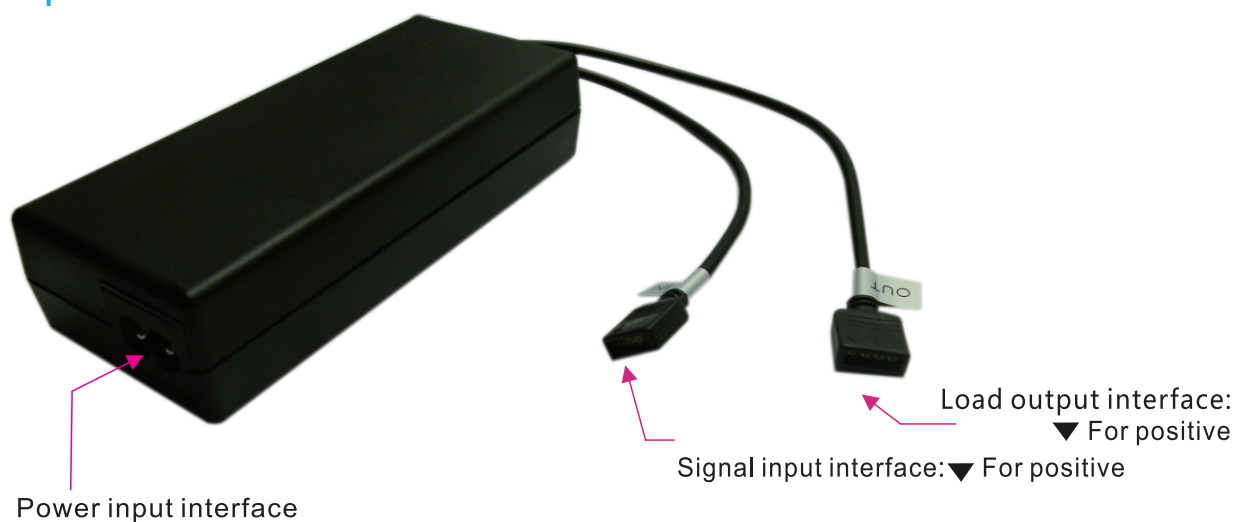
Technical parameters

Supply voltage	AC85~265V 50/60Hz
Output voltage	12VDC 2Ax3CH 6A MAX.
Signal channels	3CH
Dimmer method	PWM
Output channels	3CH
Output power	72W/144W(12V/24V)
Connection mode	Common anode

Technical parameters(Continue)

Working temperature	-20°C~60°C
Identification	CE 、 ROHS
Weight	220g
Packing size	L152×W62×H66mm

Interface specifications



Product dimensions



Control method

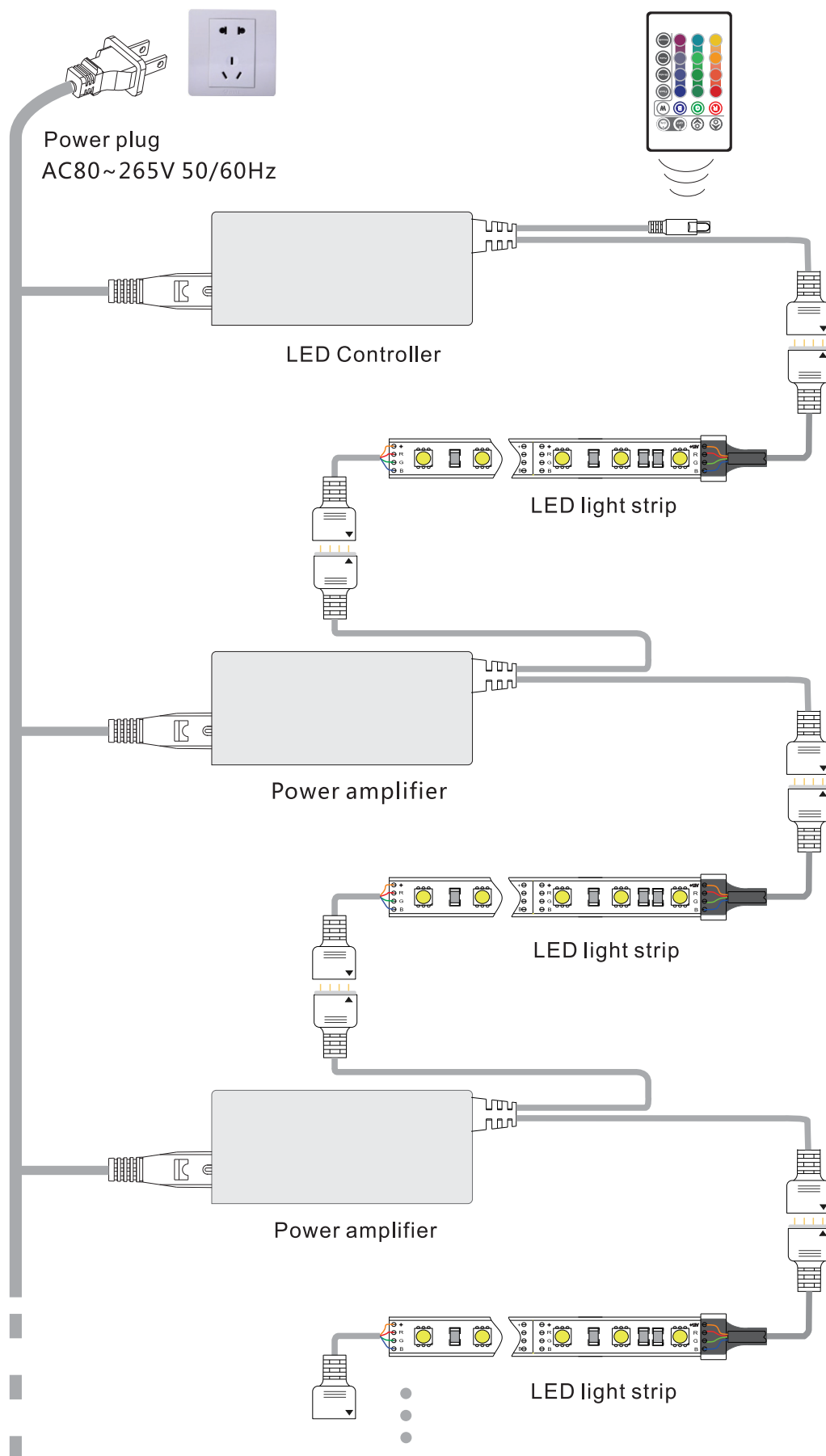
This product is suitable for the constant voltage, supporting the use of LED controller with PWM dimming technology. The input interface of the amplifier only needs connecting to the output interface of the controller or the output interface of the LED lights. Inside the power amplifier, signals are extracted and transferred into the amplifying, adjustment, driving and short circuit protection, then emitting the signals. Please see the product typical application picture as follows.

Instruction of circuit protection function

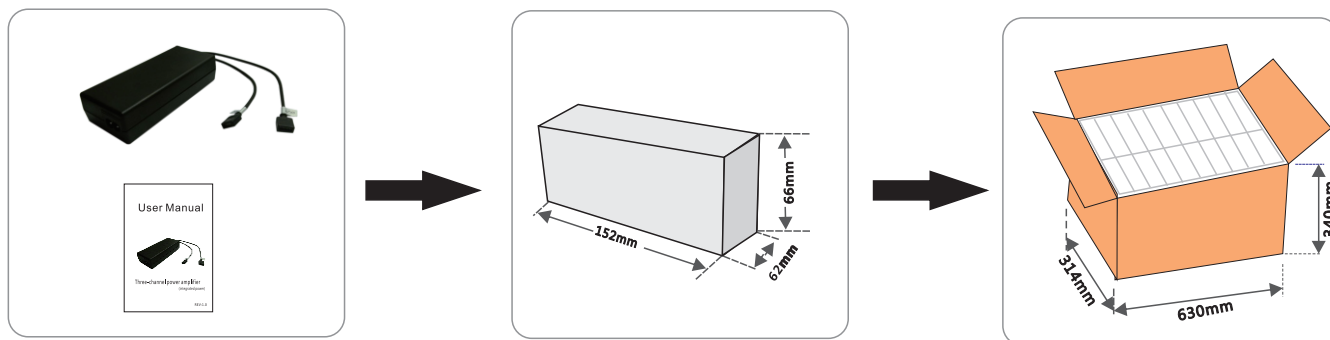
This product is suitable for the constant voltage, supporting the use of LED controller with PWM dimming technology, to increase the number of LED lights or improve the performance of entire control. Please refer to the below picture, which takes the LED controller CT-P01-A, a relevant product of our company and LED light strips as example. Please contact us for the relevant LED controllers' datasheet.

Power developing figure

In application, if the output power is not enough, this power supply amplifier can be used to match with LED controller. which can be used to connected with more LED lamps, or optimize the whole control effects. Take CT-P03-A connecting with RGB LED controller and LED strip for example to display the connecting diagram.



Packing detail



Controller size	Packaging size	Weight/pcs	Carton size	Weight/box(100pcs)
L132×W57×H32mm	L152×W62×H66mm	240g	L630×W314×H340mm	24.6kg

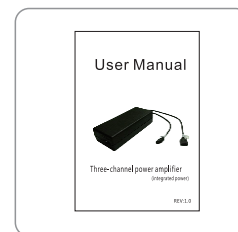
Product accessories



3CH power amplifier
(with intergrated power supply)



The power wire
(Need another order)



Manual

Related products



Model:CT-P01-B
Name:IR 24# RGB controller
(with intergrated power supply)



Model:CT-P02-A
Name:IR 44# RGB controller
(with intergrated power supply)



Model:CT-P01-A
Name:IR 24# RGB controller
(with intergrated power supply)

Install caution

- 1.Please install the products by professional electrician.
- 2.This product can not waterproof, please put into water-proof tank if the clients want to use it outdoor.
- 3.Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
- 4.Please don't install this controller in lightening, intense magnetic and high voltage fields.
- 5.Check if the voltage and power adapter suit the controller and LED lights.
- 6.Please make sure the wires can sufficiently load the LED lights for avoiding accident.
- 7.Please make sure all the wires are connected correctly before switching on the power.



After-sales service

- 1.the customers enjoy lifelong technical support for our products :
 - Free Warranty: The customers enjoy free maintenance or replacement for quality problems within one year upon date of purchasing.
 - Paid Warranty: If the free warranty time is overdue, we will charge certain cost of raw materials for repair or maintenance.
- 2.Following cases are excluded free warranty terms :
 - Any defects caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
 - Any damages due to transportation, breaking, flooding water after the purchase.
 - Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.
 - Any damages caused by negligence, inappropriate storing at high temperature and humidity or environment near harmful chemicals.
- 3.Our company would take up the biggest responsibility to replace the same type and quantity accordingly.
- 4.The clients please inform suppliers the faulty phenomena,using environment etc. For speeding up the maintenance process.

Version modify records

Version	Date	Content
REV: 1	2012.5.19	Created