

# 12 Channels Intelligent Dimmer Rack

**LT-1210KA** 12 channels ,10A per channel



## Main Functions

- 12 dimmed outputs and 10A/ch
- One 10A MCB and one bypass switch for each channel
- 0~10V control signal outputs per channel
- Applicable to distributed intelligent lighting control system
- Compatible with LT-NET signal and DMX-512 signal
- One group of 12V DC voltage output for control system
- LED indications for three phase power supply, and one LED for communication indication
- 128 preset scenes
- 128 divided zones
- Fade time: 1~100s
- Applicable for energy-saving lamp, or fluorescent lamp with electronic ballast(0-10V interface)

## Product Characteristics

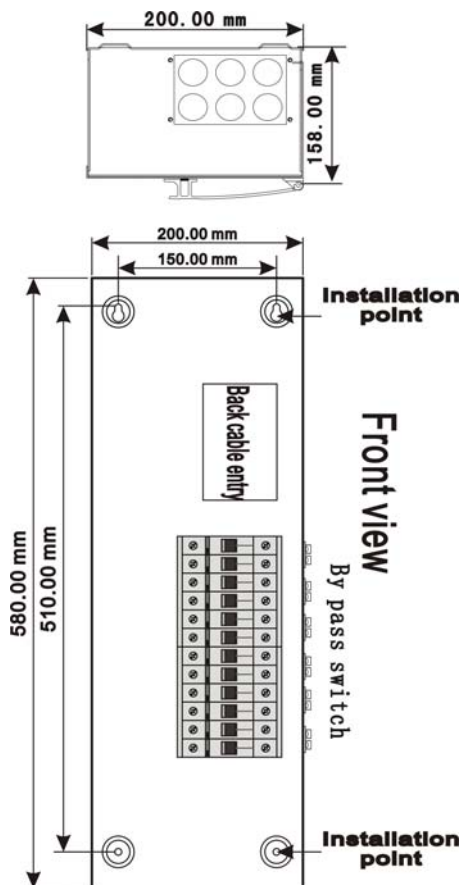
Control Electronics:	full digital, microprocessor controlled;
Ratings:	dimmers rated for continuous duty: 12 x 2 kW; Max. duty of LT-1210KA 24 kW;
Operating Environment:	0°C to 40°C; relative humidity max. 90% at 25°C; atmospheric pressure < 106kP.
Power Supply System:	3NPE 400V 50Hz (TN-S system, neutral directly connected to earth, 230V between phase and neutral); Reduced-size N linear diameter is not allowed; Single-phase operation is possible;
Supply Voltage Range:	230 V±10 %;
Rated Supply Current:	Star system 3-phase 3N with PE supply: 40A per phase at 230V; Single-phase supply: 120A at 230V;
Control Signal Outputs:	0~10V, Max. current 100mA per channel, Max. current 250mA under all circumstances;
Dimmer Protection:	MCB (Max. breaking capacity 6000A);
Control Signal Inputs:	DMX and LT-NET signal can be switched over by internal position selector switch;
DMX Signal:	correct DMX signal is continuous flash;
LT-NET Signal:	correct LT-NET signal is red and green alternately;
DC Supply For Panels:	12V/0.2A;
Front Panel Indicators:	power is OK or not for each channel (MCB trip); DMX512 or LT-NET control signal is OK or not (LED indication for communication); Power supply status (LED indication for power supply);
Dimmer Test Functions:	when emergency button is pressed, internal switch can control the 12 channels;
Bypass switch:	when the dimmer function module got wrong, take the bypass switch on



# 12 Channels Intelligent Dimmer Rack

## LT-1210KA 12 channels ,10A per channel

Installation diagram



Response Time:

DMX≤30ms;

Dimmer Resolution:

1024 steps;

Types Of Load:

suitable for energy-saving lamp, or fluorescent lamp with electronic ballast;

Electromagnetic Compatibility Standard:

EN55103-1: 1996;

EN55103-2:1996;

Safety Standard:

EN60439 ,EN60950

Ingress Protection:

IP2X

Protection:

- Protection for each channel by MCB (breaking capacity 6kA ) to ensure safe operation of system under rated conditions;
- Power supply ingoing line diameter: 25mm<sup>2</sup> for rigid wire, 16mm<sup>2</sup> for stranded wire;
- Load terminal outgoing line diameter: 6mm<sup>2</sup> for rigid wire, 4mm<sup>2</sup> for stranded wire;
- Cables enter from the knockout cable hole at the top of the enclosure, or from the cable entry in the rear plate;
- The terminal of control signal lines enter from the cable hole at the bottom.

Communication:

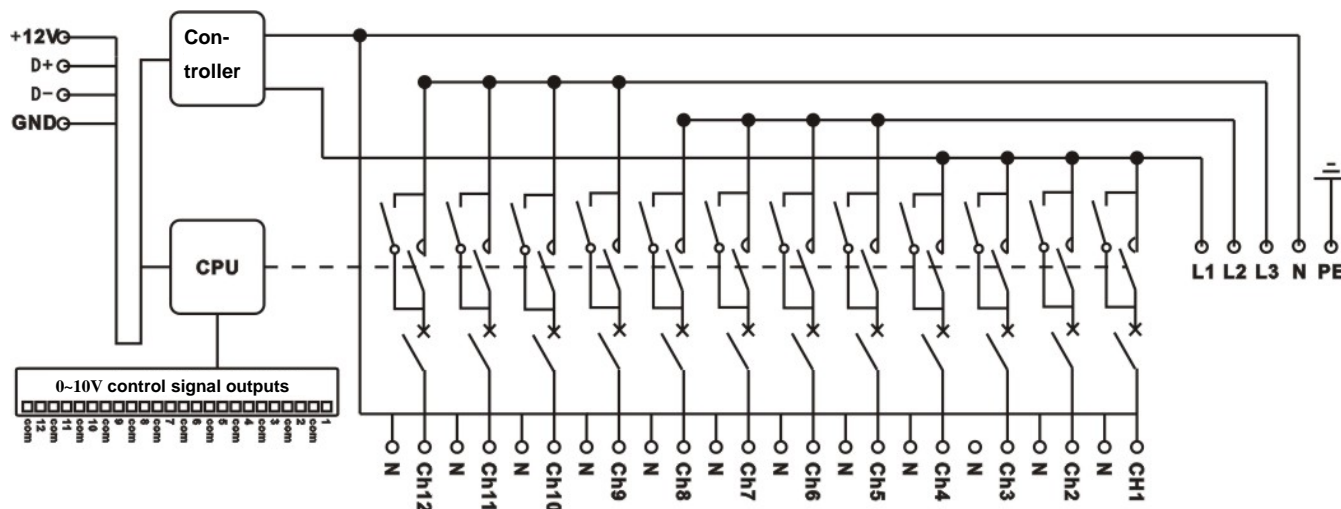
DMX512/1990 communication protocol;

LT-NET interface protocol.

Cooling:

Convection cooling via the lateral aluminum heat sink;

Electrical diagram



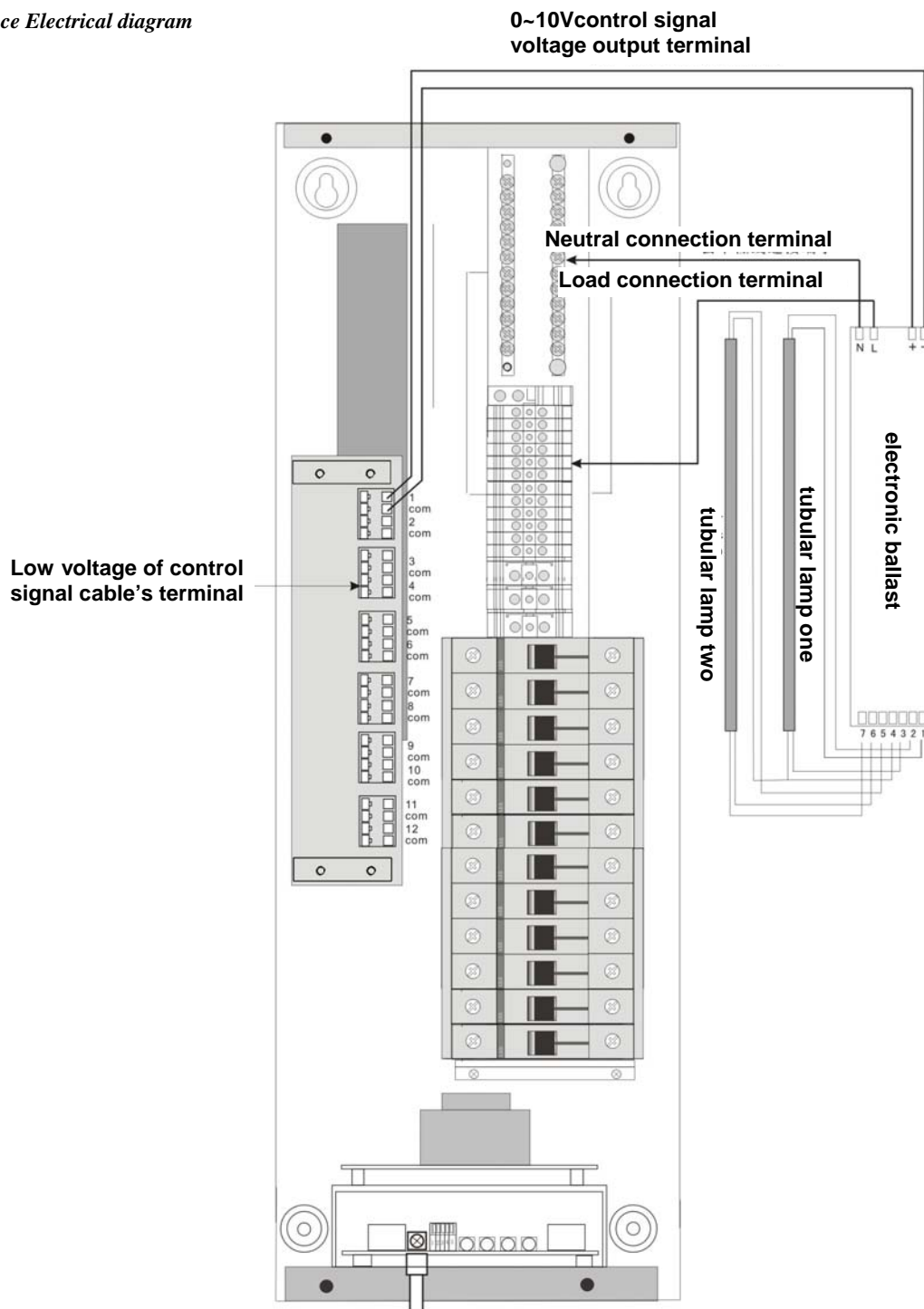
## 12 Channels Intelligent Dimmer Rack

**LT-1210KA** 12 channels ,10A per channel

### Installation electronic ballast

If fluorescent lamp need dimming control, the fluorescent lamp should install an electronic ballast which controlled by 0~10V analog signals. One electronic ballast can drives one or two fluorescent lamps. There is a group of power supply cables and a group of 0~10V control signal cables between controller and electronic ballast per channel. The control signal and the relay switch are coinstantaneous, when the voltage of control signal bellows 1V,the relay switch will be closed.

### Reference Electrical diagram



BEIJING STARLIGHT ELECTRONICS CO.,LTD

Addr: 7 Xingguang Road, Xihongmen Town, Daxing District, Beijing

Tel: 010-60259548, 60259546 Fax: 010-60259757 Email: mail@lightspace.com.cn

[www.lightspace.com.cn](http://www.lightspace.com.cn)

**LIGHTSPACE®**

