DS

Series Digital Dimmer

User Manual

（VER: 2.0）

Net.DO   LIGHTING CONTROL EQUIPMENT CO.,LTD

1. Function

1.1 Function

Welcome to use the DS series dimmer. DS series with a console that generates DMX-512/1990 control signal; thereby they constitute a digital light dimming control system. Its EMI is very low. So greatly, it is used for light dimming in TV studios, theatres, troupes, etc.

Specifications:

TYPE	Channels	Max. current (per)	Total (Single-phase)	Total (Three-phase)
DS626	6	26A	12KW	36KW
DS1216	12	16A	16KW	48KW

- DMX512 digital signal inputs;
- magnetic ring with a high anti-jamming, excellent anti-jamming capability of audio video almost no interference;
- Switch insurance, with over-current automatic shutdown protection;
- When DMX signal is broken off, every channel's output can be hold;
- High precision zero-crossing sampling, the output consistency of channels is better;
- using the optimal thermal design of ventilation to ensure reliable operation of dimmer pack;
- Power-down data retention, boot soft start to prevent the boot transient output;
- Power Supply: Three-phase five-wire   AC 380V ± 10%, 50Hz;
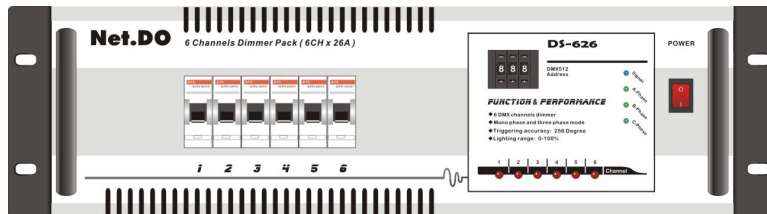   Single-phase   AC 220V ± 10%, 50Hz;

Size and weight:

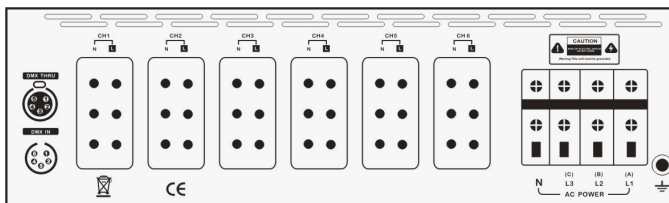| TYPE	Size	Weight
DS626	485mm x 485mm x 145mm	11Kg
DS1216	485mm x 485mm x 145mm	14Kg

2.   INSTALLATION AND CONNECTION

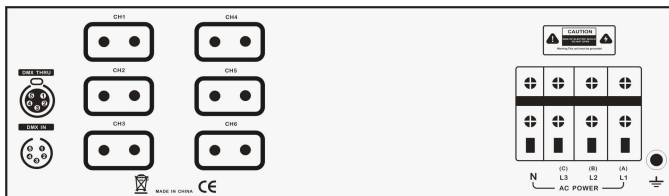### 2.1   Front Panel and Rear Panel
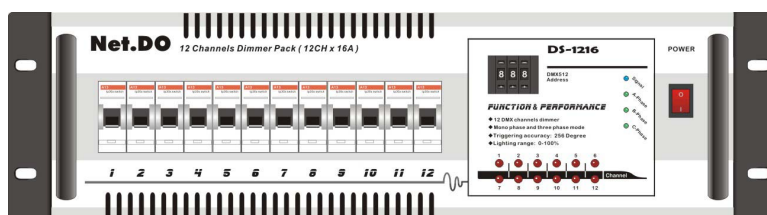
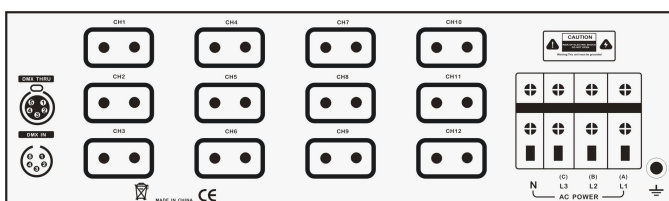DS626 panel:

DS626 Rear plane (3x10A socket):

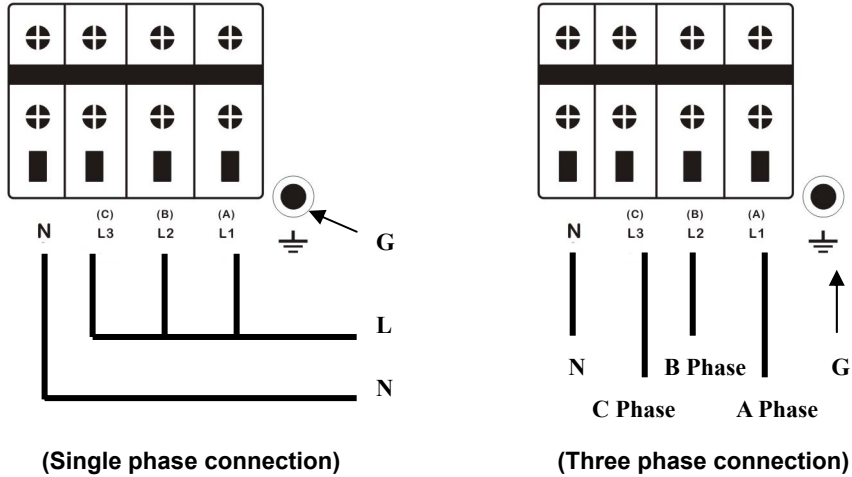DS626 Rear plane (40A socket):

DS1216 panel:

DS1216 Rear plane (40A socket):
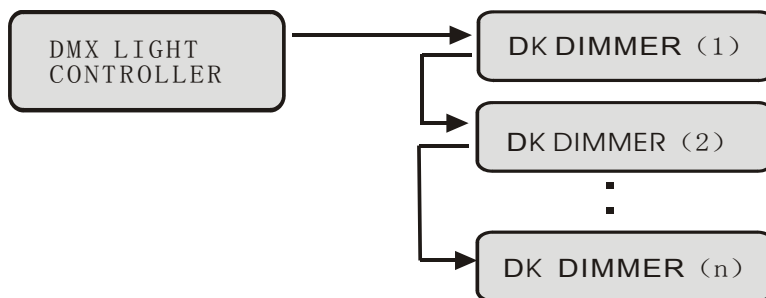
2.2 Mains supply Connecting

Power input socket L1 (A), L2 (B), L3 (C) the corresponding three-phase AC A, B, C phase, N corresponds to the neutral line. The following single-phase and three-phase connection diagram:

(Single phase connection)   (Three phase connection)
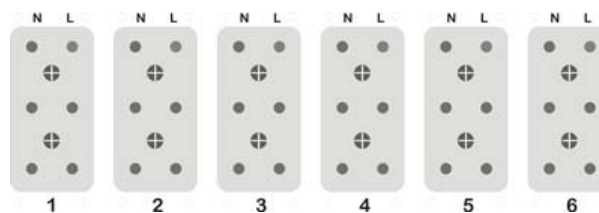
Safety Warning:

Ground terminal must be a good grounding cable ground, phase lines and the neutral line must be connected to the accuracy and reliability to ensure operational safety of personnel and equipment. Machine with a high voltage, do not arbitrarily open the casing, so as to avoid electric shock hazard!
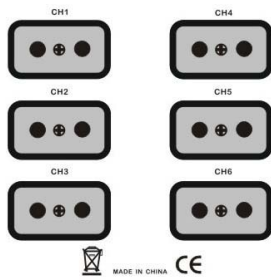
2.3 Dimmers connecting with a controller

DMX LIGHT CONTROLLER → DK DIMMER（1）

DK DIMMER（2）

DK DIMMER（n）

2.4 Loads Connecting

DS626 (3x10A socket):

1 2 3 4 5 6
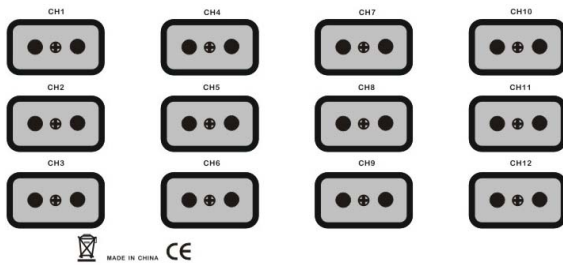

DS626 (40A socket):

DS1216 (40A socket):

N is neutral-line, L for the phase, GND to ground.

*Note: Ensure that there is no short circuit before loading.

3. OPERATION

3.1 Signal Indicator

- Power supply indicator ----- A / B / C-Phase (green)
  When the three-phase power input to normal,
  the three lights are bright;
- DMX signal indicator ----- DMX512-Address (blue)
  When a DMX signal input, the indicator light
  flashes;
- Channel value indicator
  When the channel has the output, the corresponding loop in the work of light which means
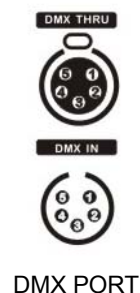 that the bright.

3.2 Protection-Switch

Protection-Switch control and their pairs of numbers corresponding to the loop, that is, for the circuit switch, but also for the return pass flow or short-circuit protection switch.

3.3 Control signal input socket

- DMX THRU ----- DMX signal through the output socket;
- DMX IN ----- DMX signal input socket;

PIN	NAME
1	GND
2	DMX-
3	DMX+
4	NULL
5	NULL

DMX PORT

3.4 Power Switch

Power switch controls only part of the microcomputer power supply, power switch off, dimming silicon path is still working, do not open the device chassis, be careful of electric shock!

3.5 Equipment Operation

Methods connected properly and according to the above settings are correct, turn on the dimmer, into the control signal to the Dimmer (DMX512 digital signals), Equipment running.

3.6 DMX Address Setting

DMX address with the encoder settings, from left to right, respectively 100, 10, a bit, numbers from 001~512.

000 numbers for self-test, this time, dimmers into the self-test state.

999 number, at this time dimmer light in all channels the whole.