

## Light Adjusting Smart Film and Dimming Smart Glass Circuit Installation Instructions

*Warning: This appliance can be used by children aged from 8 years and under also persons with reduced physical sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning, using or maintenance should not be made by children without adult supervision. Disconnection must be incorporated in the fixed wiring in accordance with the wiring rules. The output terminal is live part, connect wire and the light adjusting film must have reinforced insulation.*

Use- this product is a light adjusting film and dimming glass special power supply.

### Wiring Method:

1. Mains input AC220-240V 50/60Hz is connected to the L, the N terminal.
2. Wire control switch connected with the III, IV terminal.
3. Light adjusting film or dimming glass electrode VII, VIII terminal.

### Instructions for Use-

Special power supply for AC220-240V input, AC20-45V output.

The inside of the transformer is provided with self recovery fuse specifications input, temperature of 130 plus or minus 5 DEG C, current 2A; when the environmental temperature to work at 130 - 5 DEG C will automatically disconnect, when the temperature is lower than the 100 + 5 DEG C, can continue to work.

### Important Facts-

1. Cannot be installed on rain splash and high temperature and high humidity environment.
2. It is strictly prohibited to exceed the rated voltage, rated load power use.
3. Be sure to cut off the power supply wiring, strictly charged operation.
4. The special power supply input and output cannot be reversed, will cause the special power supply and load damage.
5. Before electrification check load and line is short, otherwise it will cause damage to self-recovery fuse work and dedicated power supply, remote control switch.
6. Remote control switch installed side by side when two or more continuous, interval should be more than 50cm, otherwise it will interfere with the dead angle, remote control.

7. Remote control switch for a single control design, it is strictly prohibited to zero at the same time, FireWire access switch.

8. Remote control switch can be replaced by an ordinary switch; remote control switch with a capacitive load 200W, remote control distance in a straight line 15m.

9. Light adjusting film or dimming glass double electrode wiring, on both sides of the same layer electrode with a special power output line, otherwise it will cause a short circuit.

10. Light adjusting film or dimming glass power per square meter is less than or equal to 5W, the power supply load of 12.5W/ square meters with special provisions.

#### Product Instructions-

Dimensions of space: 260 x 150 x 150 (mm)

Minimum distances between this produce and surrounding structure: 20 mm

Allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring fixed product by screw (see below picture) 200 - 100 Dimming Glass Installation Specification.

#### Goods Receipt, Devanning, Carry, Storage-

1. Goods Receipt- Customers in the sign for the goods before, must check whether the box itself is damaged, and the freight company personnel present when out of the box by piece inspection of goods. If it is found that the dimming glass, plastic and other damage, must be clearly indicated on the transport document, and carrier signature card should immediately inform the dimming glass damage, and with product photos and carrier signature delivery single evidence. If the customer does not check the goods themselves - out of the box no photographic record of the unpacking process - after installation, carrier and the factory will not responsible for damaged products (Take pictures).

2. Devanning- First find out of the box unpacking observed surface (clearly marked on the box). Put the box should be kept upright, in order to prevent the out of the box after the dimming glass collapse caused by damage of dimming glass, in the out of the box under the leg pad pieces of wood to make the container angle into 5 or to 7 or the. Wrench or electric wrench using open six hexagon nut cap fixed on the box is opened out of the box surface discharge stability, then remove the three side edge, carefully remove the dimming glass.

*Warning: connecting any wires dimming glass can't be used for lifting, moving or fixed dimming glass can't be forcibly pulled. If not according to this method the unpacking caused damage of glass, not responsible for damaged products factory.*

3. Carry- First of all, carefully pull the dimming glass removed and put in two pads on wood, Porter stood in the dimming glass the same side ends of single hand backing another hand to seize the dimming glass top and stood up, and the dimming glass on the upper part of the body, next to the porter to help, according to the dimming glass weight can be three or four at the same time carry, step or turn to pay special attention to the dimming glass four angle don't touch any object, so should always be vigilant. Handling in place all the porters to also carefully two pieces of mat wood down dimming glass and placed well, in the adjustment of dimming glass close to the area than the dimming glass wall into 5 or to 7 or the angle, between the dimming glass and wall soft pad, and the upper end of the adjustment of dimming glass the wall parallel do not twist, when placed second due to pay special attention to second pieces of dimming glass bottom to the first piece of dimming glass bottom flat close by, other dimming glass display the same, but the same place no more than 7 pieces of dimming glass. Pay particular attention to handling dimming glass as the erection of handling, needs must keep the dimming glass in handling smooth, bending deformation to small as flat lift, otherwise it will cause the dimming glass glue liquid leakage makes dimming glass completely irreparable damage.

4. Storage- Storage of dimming glass box should be kept upright, smooth placement in the indoor in an out of the box before, and write to prevent collisions on banning signs posted in the dimming glass box. If the dimming glass has been unpacking handling in place after the storage, shall be stored in dimming glass around shield to prevent the collision of other objects, wood on the cover of dimming glass surface, prevent welding, cutting machine processing the scene when the spark splash, object caused by dimming glass surface damage, and write to prevent the collision of banning logo affixed to the dimming glass.

#### Circuit Installation-

1. Dimming Glass Connection and all related circuits must be installed by an qualified electrical engineer or factory technical personnel.
2. Before installation must wire the detailed examination of dimming glass exposed without damage and other phenomena, such as there are damaged to cut or use insulation tape coating. Dimming glass -using AC70V50Hz, so the dimming glass pin out without polarity can be respectively welded to the insulating tape coating using total output wire cloth on the pre. Do not come into contact with the metal frame, the leakage caused by short circuit damage power and dimming glass.
3. Dimming glass used for special power supply is the total area under the dimming glass and custom are not interchangeable, dimming glass power use generally placed in the ceiling inner repairing mouth (for future repair or maintenance), check all pre wire cloth such as: the total input power line AC220-240V 50/60Hz, manual switch line, the total output line AC20-45V, whether pre cloth. After the first connection cloth good total input power line AC220-240V 50/60Hz, manual switch line (total output line not connected), after the completion of the inspection of power wiring

with various functions, remote control and switch is normal or not meets the design requirements, check the total output line is to meet the AC20-45V terminal voltage. Such as can't meet the technical requirements please contact the factory maintenance, replacement, such as on-site factory technical personnel please emergency announcement manufacturer technology personnel examination. (dimming glass + special power supply self independent system terminal in addition to the total input power line can access the outside can not access AC220-240V 50/60Hz power in any terminal or line).

4. Dimming glass connection mode as shown below: monolithic dimming glass connection as shown in Figure 1, more pieces of dimming glass connection as shown in figure 2. Adjustable has the obvious connection identification and connection method of power supply special optical glass.

a. Schematic diagram of monolithic glass connection. The input end: AC220-240V  
The output end AC20-45V AC220-240V AC20-45V

Figure 1. Schematic diagram of monolithic glass connection

b. Glass connection diagram example the input end: AC220-240V AC20-45V the output end AC20-45V AC220-240V

Figure 2. Glass connection diagram example

*Warning: dimming glass provides must work in special power supply voltage, voltage and current is too high will cause serious damage to the glass products. Must by electrical engineer by profession, after fully understanding the product, in order to provide repair and circuit service.*

5. When wiring the dimming glass of red black line are respectively connected to the total output line, wiring mode is used for T type branch connections shall not pull hard wire, wiring process.

6. The waterproof tape pull tightly wound to the wiring, then the insulation tape wrapped and sealed. 7.connection will be completed the main line is arranged in the wiring groove, preventing rat bite. 8.before turning on power, the first test resistance readings between the metal frame and the electrode, to determine whether it is infinite, otherwise you must check the short circuit, and the metal frame part of the electrode insulation.

9. Dimming glass and electric method; the voltage regulator is switched on pressure knob is zero, the regulator output lines are respectively connected to the total output line (terminal at the same time the total output line has not received special power on) gradually increase pressure regulator pressure regulating knob and observe the changes of optical glass after adding electricity is not transparent the line, is: qualified, not qualified to: check the line to line, which makes the dimming glass all

translucent. Remove the pressure regulator and to complete the special terminal power to the total output line wiring after the function test system power remote control switch is working properly and meets the design requirements.

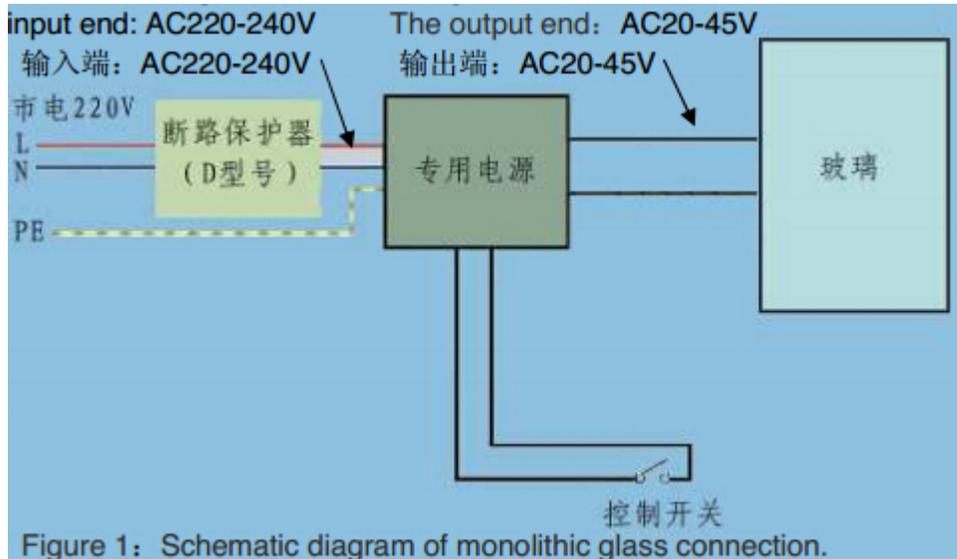


Figure 1: Schematic diagram of monolithic glass connection.

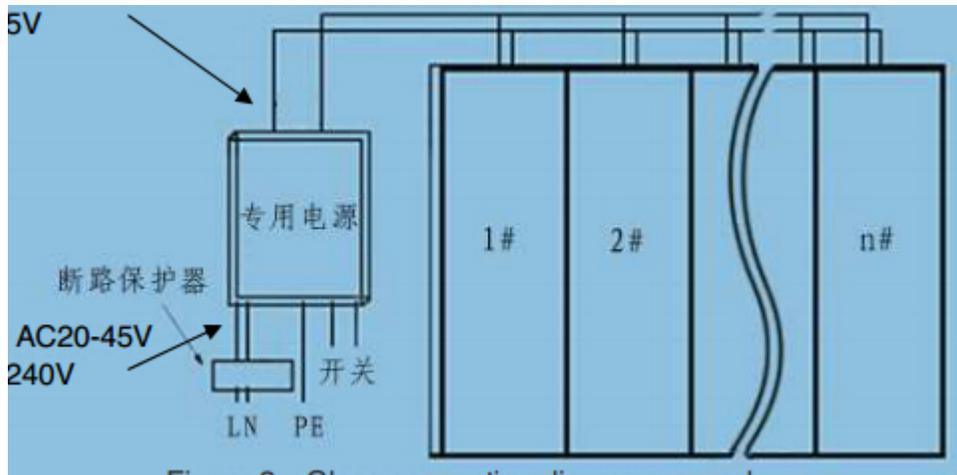


Figure 2: Glass connection diagram example