

SMART FILMS INTERNATIONAL

Product Introduction

HD series dimming glass/film intelligent controller can realize dimming circuit with dimming, segmentation dimming mode and stepless dimming mode with adjustable brightness of any range of brightness, which can be used according to different applications. It can be manually switched and controlled, wireless remote control, reliable switch output, long switch life, over-voltage protection, overload protection, design.



Technical Parameter

Transformer

| | |
|---------------------------------------|--|
| Item Type | HD Series Adjust Transparency Transformer |
| Product or component type | Safety and isolation transformer |
| Rated power in VA | HD 50 50W, 6 SQM HD 100 100W, 12 SQM HD 200 200W, 24 SQM |
| Input voltage | 230 VAC (or 110V) single phase, terminal (s): N-L1 |
| Output voltage | 0-60VAC |
| Secondary winding | Single |
| Protective cover | Yes |
| Ambient air temperature for operation | -20...50 °C |

Controller

| | |
|-------------------------|---|
| Type | Wireless Control, Knob control or RS485 |
| Frequency | 433mhz |
| Lithium Battery | CR2450 |
| Function | On/off and Dimmer |
| Remote control distance | >25m |
| Size | 120 x46x14mm |
| Weight | 80g |

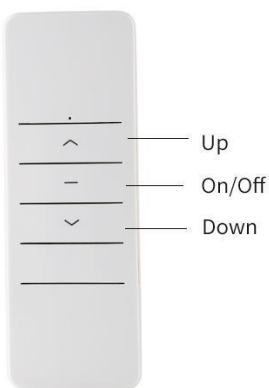
Complementary of transformer

| | |
|------------------------------------|--|
| Input voltage limits | 220 V (or 110V) |
| Network frequency limits | 47...63 Hz |
| Input voltage toleranc | +/-15 V |
| Efficiency | 98% |
| Material | 100% copper |
| Power dissipation in W | 1W,2W |
| Output sustained overvoltage | 4 % (no load, hot state) |
| Maximum voltage drop at rated load | 0.50% |
| No load losses | 0.5W |
| Marking | CE |
| Fixing mode | operating position: horizontal, vertical |
| Operating altitude | 3000m |
| Size & Weight | HD50, 50W, 63*103*140mm 1.8kg |
| | HD100, 100W, 63*103*140mm 1.8kg |
| | HD200, 200W, 74*120*155mm 3kg |

Environment

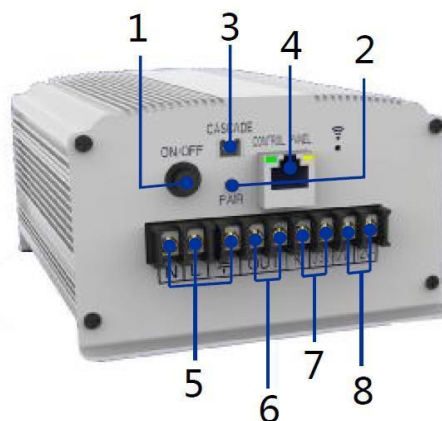
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|-------------------------------------|-----------------------------------|
| Product certification | CE, EMC |
| Standards | EN 62479 |
| IP degree of protection | IP21 |
| Protective treatment | TC |
| Ambient air temperature for storage | -40...80 °C |
| Overvoltage category | Class I conforming to VDE 0106-1 |
| Dielectric strength | 2000 V between winding and ground |

Controller



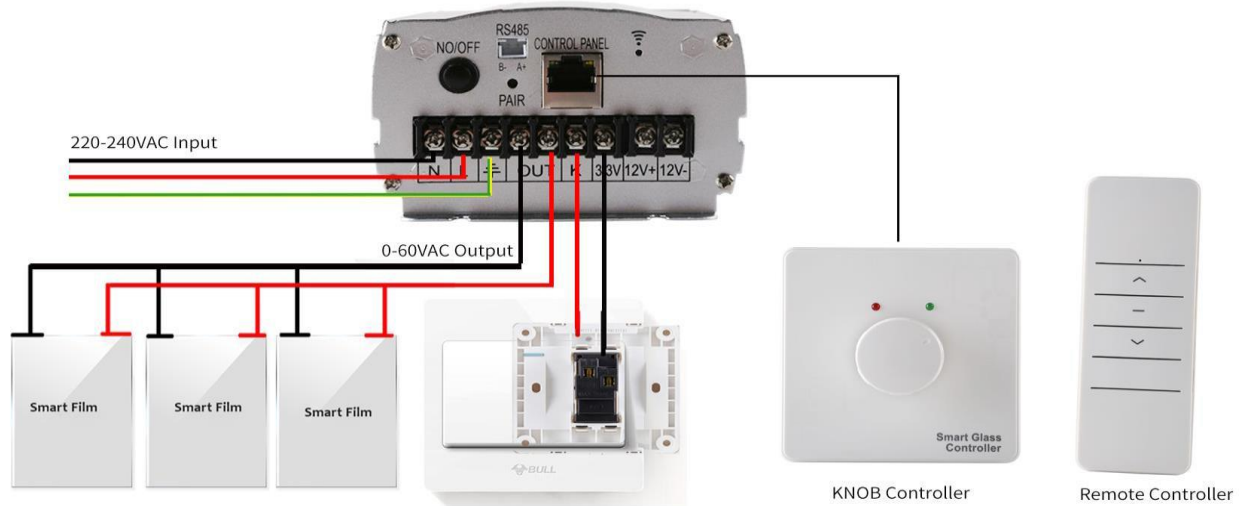
- 1 Power switch
- 2 Pairing key
- 3 RS485 communication port
- 4 Control panel port

Terminal



- 5 Input Connect
- 6 Output Connect
- 7 Control switch Connect
- 8 Output 12VDC

Wire diagram



Precautions:

1. The installation position of the controller should not be water and away from the heat source
2. Prohibit the use of more than the specified input voltage, rated output power.
3. All wiring operations must be cut off power
4. Before connecting the smart film and controller, the output voltage must be confirmed at no load.
5. All terminals must be strictly in accordance with the wiring diagram wiring, otherwise it will cause serious damage to the controller and smart film
6. Please check the battery power of the remote control when the remote control is not stable or malfunction, if the battery power is insufficient, then to replace the battery, if the battery power is sufficient, it may be caused by electromagnetic interference nearby, please check the source of interference.

Warranty

The Seller guarantees that the product will meet the technical specs. In the case of product failing to perform against the spec, the Seller will Share the related expenses. In addition, the Seller provides Two-year after-sales. This product warranty extends to the Buyer and its final customer of the products covered in this contract. The product warranty starts from the date of arrival at the destination and ends at the end of the 24th month from the start date.

In case that the product requires warranty service or maintenance, the following protocols will be followed:

1. For simple repairs that can be handled by the final customer with replacement parts alone, the Seller will send necessary replacement parts to the final customer.
2. If the problem is more complicated and the customer can find a local repair person to take care of it at reasonable cost, the Seller is willing to share for the parts and labor, provided that the customer can
 - a) establish the need of services via third party evaluation and certification.
 - b) obtain prior approval of cost from the Seller before commencing the service.
3. In case that the repair needs cannot be handled locally, the product can be sent to the seller for maintenance.

The foregoing warranty does not apply to the damages caused by reasons other than product quality, including but not limited to the following:

1. The product is incorrectly or improperly repaired by the customer.
2. Unauthorized modification or misuse.
3. Operate the product outside the designated environment or install and repair the product at an improper locale.
4. The damage caused by the circuit self-installed by the customer.
5. The product model or machine body serial number is altered, deleted or illegible.
6. The damages are caused by accidents, including but not limiting to lightening, water penetration and fire disaster, etc.