

Power Transformer General Description, Use & Spec

Product Description

Smart Glass Power Transformer is an electrical device that communicates over RF (Radio Frequency) wireless technology with 433 MHz and supplies electric power to PDLC Smart Window Film or Privacy Switchable Glass by converting 220V/110V AC to 48V/60V AC output voltage, which allow users to switch on/off the smart glass window on demand.

It is designed easy to install with simple structure, featuring in high safety and exceptional isolation, ranges from 50W to 300W with options for 36V / 48V /60V AC output.

Cautions

1. For domestic use only;
2. Make sure the Voltage Input and Herz are in compliance with the ratings on nameplate before using it;
3. The power and current should never exceed the value specified on the nameplate for avoiding off the damage and burnout
4. Ensure the ventilation and heat dissipation of this device when using it. Never cover the heat dissipation holes and avoid using it in hot and humid environment.

Specifications are subject to change without notice.

Technical Data Sheet

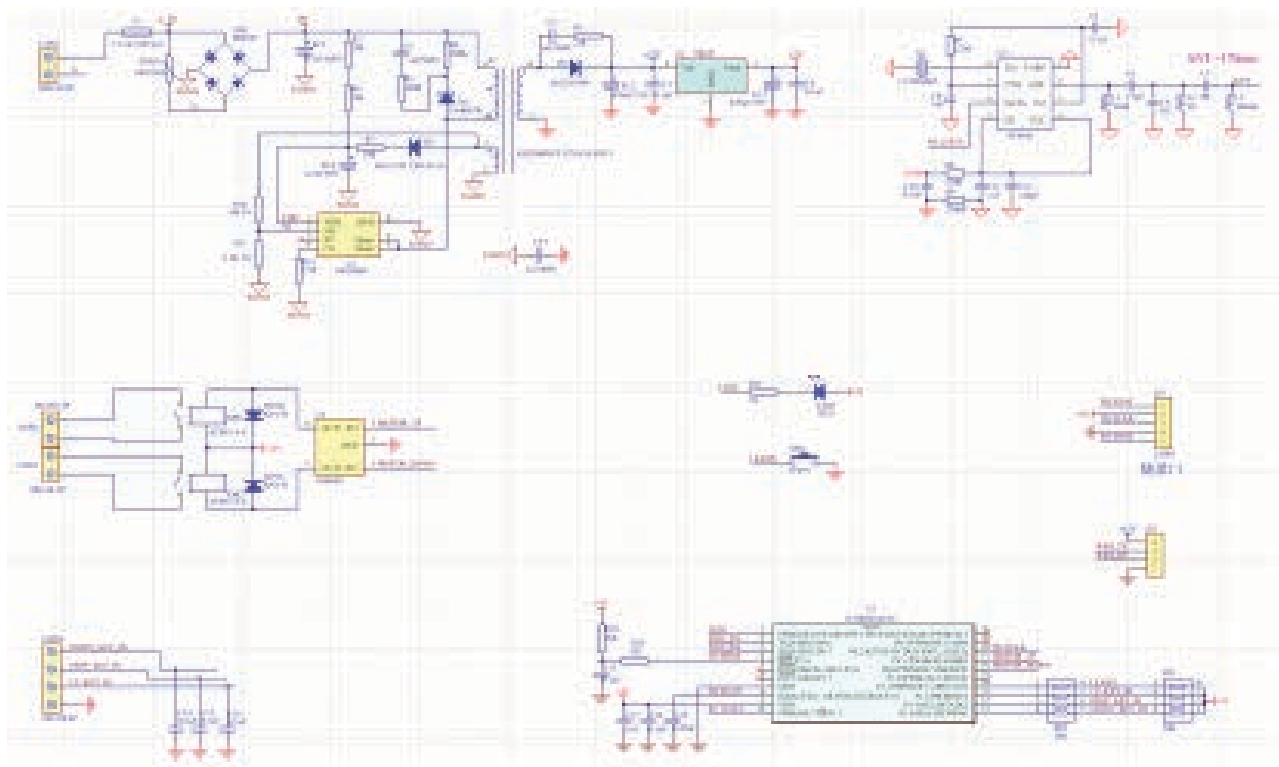
Product Name	Power Transformer
Model Number	YF50-220-RF / YF100-220-RF / YF200-220-RF / YF300-220-RF
Input Voltage	110V/240V
Output Voltage	48V AC / 60V AC
Power	50W / 100W / 200W / 300W
Maximum Area Can Energize	5 sq.m / 10 sq.m / 20 sq.m / 30 sq.m
Control Option	RF Touch Remote / Wall-Mounted Switch Panel / Home Automation Network
Protective Device	Ground protection & short-circuit protection
Rated Frequency	50-60Hz
Phase	Single
Max Current Output	1 A / 2 A / 4 A / 6A
Installation	Wall-Mounting
Hole Spacing	50W & 100W : 202MM 200W & 300W : 247MM
Dimension	transformer 50W & 100W: 215 x 157 x 52 (mm) transformer 200W & 300W : 267 x 197 x 61 (mm)
Weight	1.86kg / 2.30kg / 3.53kg / 4.3kg
Housing Craft	Steel Plate Powder Coating
Housing Style	Open
Power Input Interface	Female 3 Pin Power cord
Power Output Interface	Wiring Terminal
Remote Control Distance	100 Meters (Open Field)
Working Temperature	0-40 Celsius Degree, <=50% RH
Storage Temperature	0 - 40 Celsius Degree, <=50% RH
Standard	EN Listing
Manufacturer Warranty Length	12 Months

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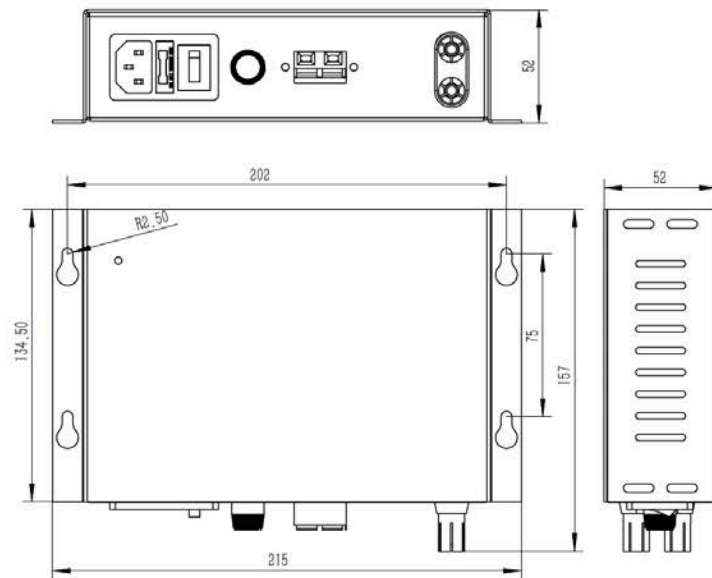
The Maximum Area of Power Transformer Can Energise:

50W	100W	200W	300W
5 sq.m	10 sq.m	20 sq.m	30 sq.m

Layout Design

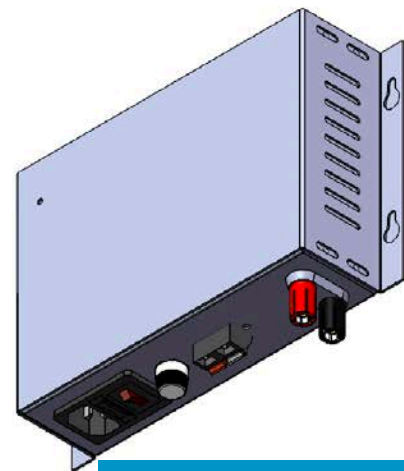


50-300W Power Transformer Layout



Unit: mm

Watt	Length	Width	Height	Hole Spacing
50W-100W	215	157	52	202
200W-300W	267	197	61	247

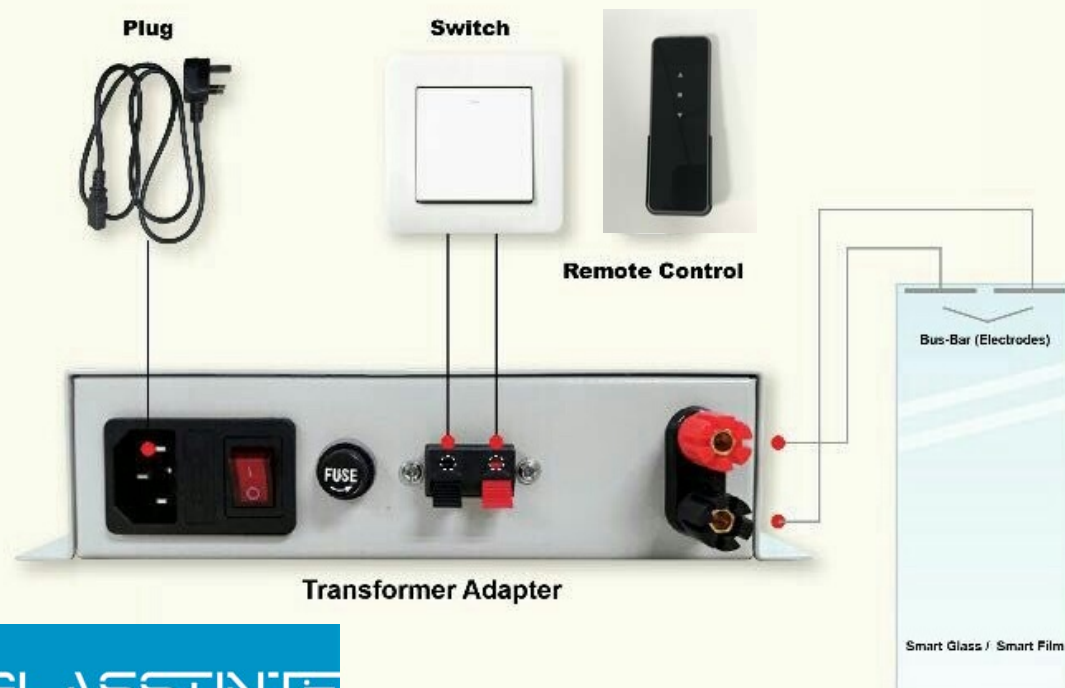


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Remote control power supply wiring instruction



RF Remote Program Instruction

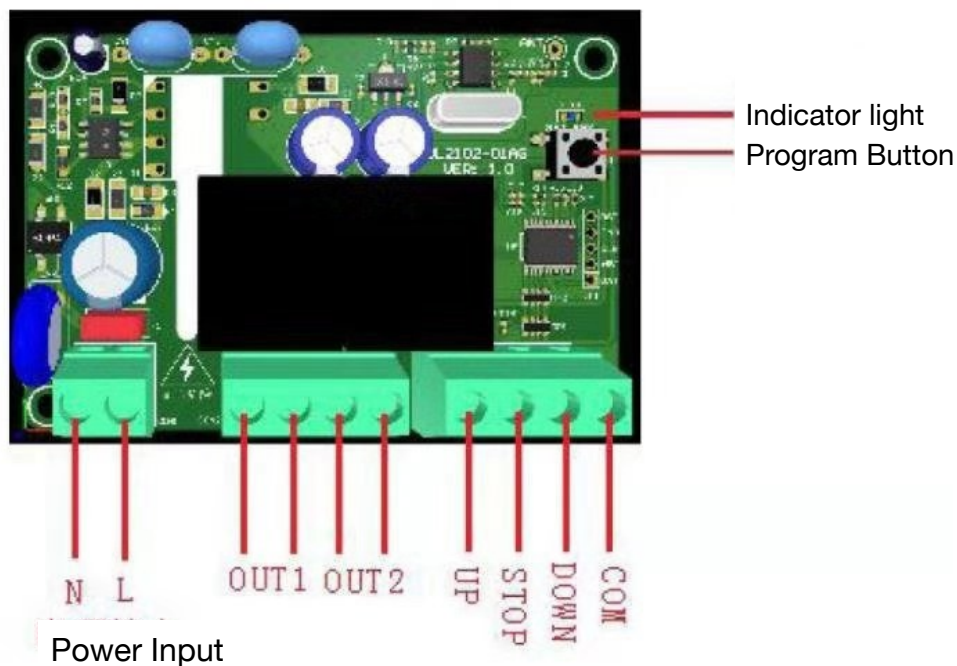
Pairing the RF Remote to your transformer

1, Press and hold the program button of receiver till the red indicator light start blinking slowly and entering into the pairing mode. (The indicator light will turn off and quit from pairing mode if the operator do not respond within 30 seconds.)

2, Press ■ on RF remote control for 2 seconds and then the red indicator light on for 1 second without blinking as the sign of successful pairing. Your programming now is finished.

NOTE: 1 RF remote can control up to 50 power transformers maximally.

RF Tranformer Interface Instruction



How to unpair RF remote control?

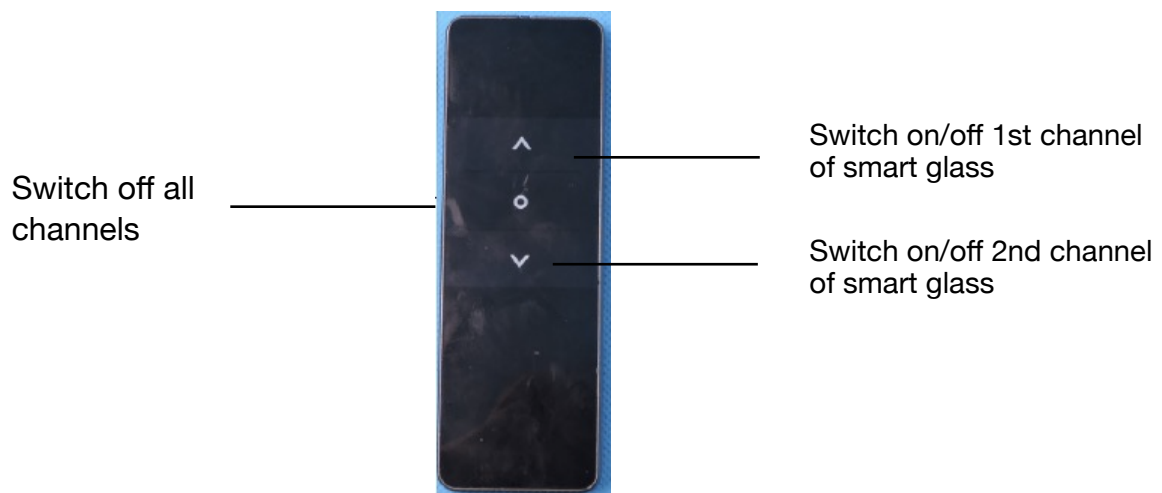
Press and hold the program button of receiver till the red indicator light start blinking slowly and entering into the pairing mode, then press ▼ for 2 seconds, indicator light on for 1 second without blinking. The RF remote control unpairs successfully.

How to delete the program of RF remote ?

- Press and hold the program button for 7 seconds until the indicator light of receiver blinks from slow to fast entering into the mode of deleting program.
- Press ▲ on RF remote for 2 seconds and the indicator light be on for 3 seconds, all the program be cleaned and RF remote exist from the mode of deleting program.

NOTE: The indicator light will turn off if operator do not respond within 30 seconds under the mode of deleting program.

RF Remote Instruction



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FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.