

PriWatt™ Glass/Film

ELECTRICAL CONNECTION

The manufacturer provides wire connection diagram examples for the operation of PriWatt Glass/Film panels, however, the manufacturer assumes no liability for the wire connection of any products and recommends that the purchaser's designated agent consults with a licensed electrician for compliance with area Building Codes and professional electrical system wiring.

PriWatt Film and Glass are UL recognised: Certificate Number E514182.

Standard or Safety: UL 962, Edition 5 (USA) / CSA C22.2 No. 0.4, 4th Ed., Issue Date: 2017-04 (Canada)

Product Category: IYQX2 (USA) / (IYQX8) (Canada)

Electrical installation of PriWatt™ Glass/Film requires the following items:

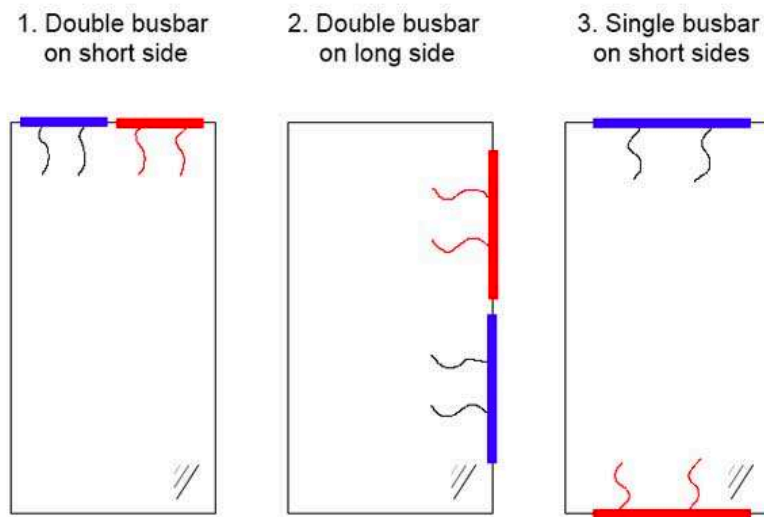
1. A 10 AMP (minimum) ground fault circuit breaker with 120VAC 50-60Hz (installer/owner supplied) electricity.
2. A wall-mounted switch, 120VAC 50-60Hz (electrician or owner supplied). This switch is required to allow the panels to be turned ON/OFF.
3. Power transformer 48VAC (supplied). 100 Watt Transformers contain 2 Amp Fuse within the housing. 300 Watt Transformers contain 3 Amp Fuse within the housing.

Switch and Remote

- PriWatt film can be controlled with a variety of devices and can be easily configured to work with your smart home system or a phone app.
- Control of single or multiple glass panels or segments is possible.
- The manufacturer recommends LUTRON CASETA.

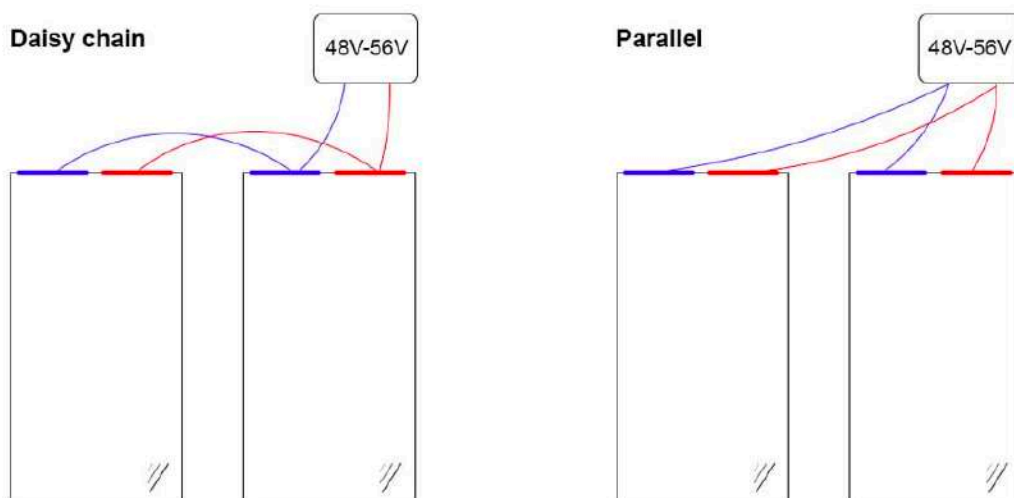


In a standard case scenario, each PriWatt Glass panel has two busbars. Busbars can be located as follows:

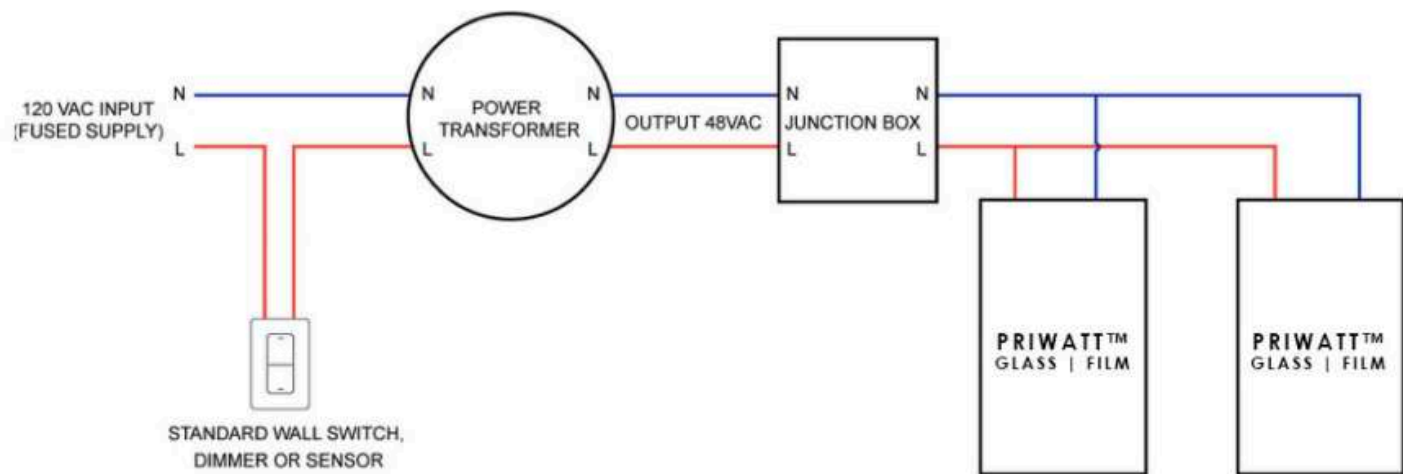


- If your panel has a different busbar setup, please call your Smart Glass Technologies consultant prior to commencing the installation.
- Each busbar has two wire leads. One busbar has 2 RED wire leads, another busbars has 2 BLACK wire leads.
- One of the wire leads is SPARE in case of any damage during the transportation or installation process. Please shrink-wrap it and conceal it safely in the frame.
- You have to connect one of the RED wires to one polarity of the Transformer Output (48-56 Volts) and one of the BLACK wires to the other polarity of the Transformer Output (48-56 Volts).

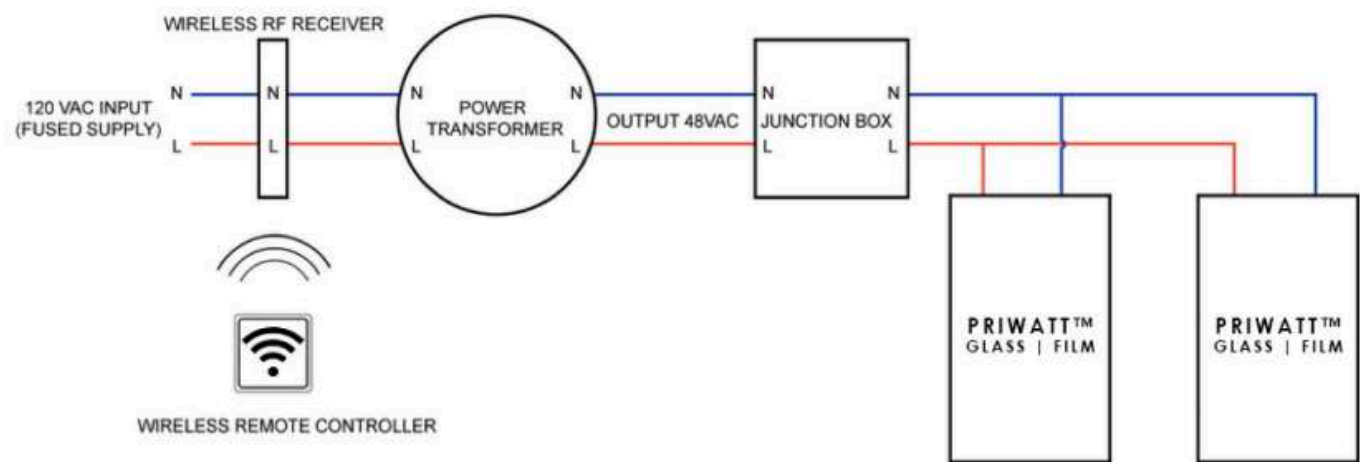
The PriWatt glass panels can be connected in Daisy chain or Parallel:



Standard Hardwire Diagram



Wireless Diagram



Pre-wiring:

1. PriWatt™ Glass/Film requires all input electrical installations to be completed by a Licensed Electrician and in compliance with all code requirements. Low voltage connection can be done by the certified installer.
2. Before installation, inspect busbars, electrode leads and wires to assure insulation.
3. Twin (or dual) wires are attached to each end of the PriWatt™ Glass busbar. This apparent double-up is to compensate in the case of a wire becoming detached or dislodged during the installation process. Neither end of the busbar is 'Polarity Conscious' - the wires can be considered as Negative or Positive when connecting them to the Transformer.

Cautionary Information:

1. **DO NOT ATTEMPT TO INSTALL THE PriWatt™ FILM/GLASS PANELS ON A LIVE CIRCUIT.**
2. Install only on a GROUNDED 120VAC circuit protected by 10A fuse or breaker. The circuit must also be protected by a ground fault circuit breaker.
3. The switch must be wired into the circuit on the high voltage side of the transformer (before the transformer). Failure to observe this requirement may lead to irreparable damage to the PriWatt™ Film/Glass panels.
4. Smart Glass Group, manufactures and supplies a range of thermally protected UL & CSA Certified isolating transformers. Failure to use PriWatt™ Transformers may result in irreparable damage to the PriWatt Film/Glass. (Data Sheets can be supplied upon request).
5. It is important not to exceed the maximum SqFt Area Power Limit of the provided transformers. Do not connect any other devices or products to the output of the PriWatt™ transformer. There are no serviceable parts or replaceable parts within the PriWatt™ power supplies.
6. Before turning on the power supply the electrician must test the resistance reading between the frame and the electrode to ensure the reading is infinite/open circuit, i.e. there is no connection between the frame and the panels. If the reading is not infinite, then the electrician will need to check all busbars, electrodes and cables until the short circuit is found and insulated accordingly.
7. No exposed busbars, electrode leads, or wires should contact any metal frames. That will damage the transformer and PriWatt™ Film/Glass. If busbars, electrode leads, or wires have become exposed during glass lamination or shipping, the exposed parts must be wrapped with insulation tape. Caution must be taken to prevent damage of provided wiring or wiring insulation.

PriWatt™ 100Watt

PRI: 110 V / 60 Hz / SEC: 48 V / 2,08 A

- Potted in a black plastic housing
- 4 mounting straps at the housing
- Pre-connection: SVT 2x AWG18, black, 1 foot long
- Sec-connection: SVT 2x AWG18, black, 1 foot long
- Automatically resetting temperature switch (230°F)
- Glass tube micro fuse (D 2,0 A)
- Maximum ambient temperature 104°F
- Isolation class B
- IP 56
- Dimensions (L x W x H): 4.8 x 3 x 3 inch (sens cords)
- Weight: 5 lbs
- UL certificates: E125651, E466710
- Made in Germany

PriWatt™ 300Watt

PRI: 110 V / 60 Hz / SEC: 48 V / 6,25 A

- Potted in a black plastic housing
- 4 mounting straps at the housing
- Pre-connection: SVT 2x AWG18, black, 1 foot long
- Sec-connection: SVT 2x AWG18, black, 1 foot long
- Automatically resetting temperature switch (230°F)
- Glass tube micro fuse (D 4,0 A)
- Maximum ambient temperature 104°F
- Isolation class B
- IP 56
- Dimensions (L x W x H): 5.3 x 3.6 x 4 inc (sens cords)
- Weight: 7.5 lbs
- UL certificates: E125651, E466710
- Made in Germany

