

HANDLING & STORAGE

Handling

- Switchable glass should be handled like any other glass product, with care, caution and awareness of the hazards in the work environment.
- Take special care to protect the low-voltage wires and connections.
- Never lay the glass with the busbar on the edge that is in contact with the ground or likely to be damaged by the weight of the product or adjacent structures.
- **DO NOT** lift or move the glass by the low-voltage cables connected to the busbar.

Storage

- If the relative humidity in the storage environment exceeds 80%, take additional precautions to protect the glass edges.
- Install the glass in a dry environment to prevent watermarks and moisture exposure at the edges.
- Store the glass at temperatures between -20°C and 70°C. Keep the entire glass surface at a consistent temperature to prevent localized condensation.
- Store glass crates upright with an approved 5- to 7-degree support angle.

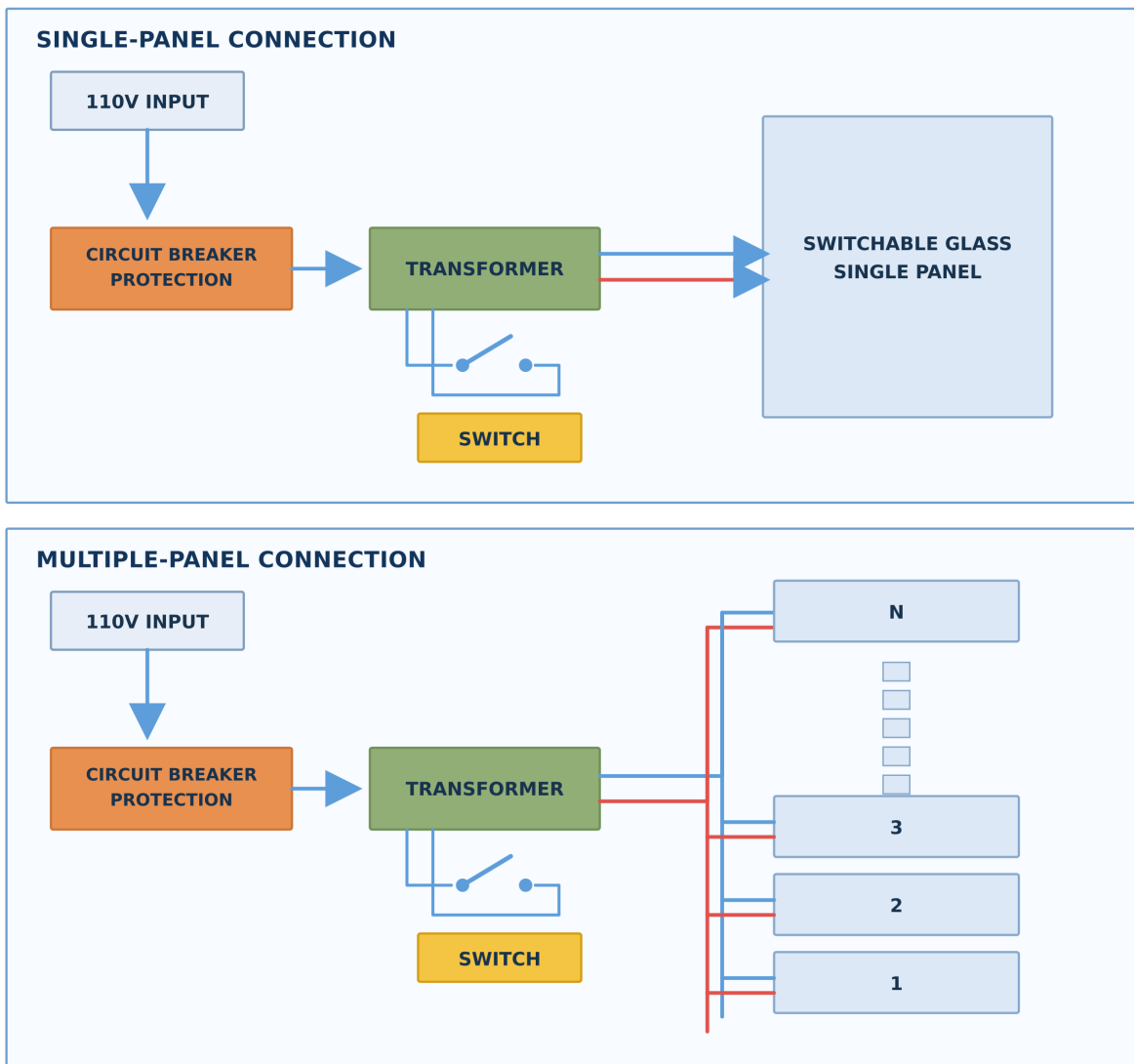
GLASS INSTALLATION INSTRUCTIONS

1. Clear frame and work area of residue, moisture, and other foreign material.
2. Switchable glass can be installed in steel, aluminum, PVC, or wood frames.
3. Install the glass using approved edge-protection tape or structural-grade, neutral-cure silicone. This will resist the ingress of water or other foreign material during installation and the life of the product.
4. Position the busbar at the top of the panel so that it is not exposed to load or stress. **DO NOT** install the panel with the busbar along the bottom edge.
5. Handle the low-voltage cables connected to the busbar carefully to prevent damage.
6. Prepare all required wire outlet ports, holes, and slots in the frame before installing the glass. Attempting to make outlet ports in the frame after the switchable glass is mounted may lead to damage of the electrical connections.
7. If the switchable glass has external protective film, do not remove until the installation is complete.
8. Care for the switchable glass after installation in the same manner that laminated glass or IGUs would be.
9. Use glazing silicone to seal the edges to the frame system. It is critical that non-acidic glazing silicone is used. A suitable product is GE83 Toshiba sealant.
10. **DO NOT** clean the switchable glass with corrosive cleaning fluids or materials.

CIRCUIT INSTALLATION

All circuit wiring of switchable glass must be installed by a qualified electrical engineer, or under on-site guidance of the manufacturer. Electrical equipment, wiring, and commissioning must comply with the local standards enforceable at the site of installation. Details must be checked before installation.

1. Confirm that no exposed electrode, connection, or wire is touching the metal frame. Insulate all exposed electrical connections to prevent damage to the power supply or glass. During the glazing process or transporting, the exposed electrode wires can be coated with an insulating tape.
2. First, make sure that power is not on and outlet ports, holes, or slots are installed to the frame system prior to installing switchable glass.
3. Clarity™ operates at 60 V AC. Connect the glass only through the designated PGS transformer. Never connect building mains power directly to the glass.



CLEANING

- Protect the glass from damage and construction debris after installation.
- Clean the glass with a soft microfiber cloth and mild soap or a nonabrasive glass cleaner.
- Do not spray cleaning liquids directly onto exposed glass edges, framing channels, busbars, or electrical connection points.
- Dry the glass completely with a clean, soft cloth.

TECHNICAL SPECIFICATIONS

The preparation and installation method for the busbar is extremely critical to the ongoing operation of the switchable glass. Training and equipment specific to this task will be given and specified by the film supplier.

Visible Light Transmission (VLT)	On-state >77% Off-state <6%
Haze	On-state <3% Off-state >95%
UV Blocking	On and off states: ≥99%
Operating Voltage	60 V AC
Response Time	Off to on: ~ 200 ms On to off: ~ 600 ms
Power Consumption	<3.7 W/m²
Frequency	50-60 Hz
Working Temperature	-10°C to 60°C
Storage Temperature	-20°C to 70°C
Standard private-state color	White
Maximum standard panel size	70 in. × 120 in. / 58.33 sq. ft.
Life Span	>20 years indoors
Switch Life	>2 million times

NEED HELP?

PGS Technical Services can assist with product handling, installation, electrical connections, control setup, troubleshooting, and replacement components.

For faster assistance, have the following information available:

- Project name and location
- Order number
- Unit size and glass configuration
- Description of the issue
- Photos or video, when applicable

Contact PGS Technical Services

1.866.466.9525

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privacyglasssolutions.com

Important: If a glass unit, transformer, control, cable, or electrical connection appears damaged, stop installation and contact PGS before proceeding.