

WF Li-ion SOLAR PANEL

EN Instructions

somfy[®]

TRANSLATED INSTRUCTIONS

These instructions apply to all WF Li-ion SOLAR PANEL, the different versions of which are available in the current catalogue.

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1. PRIOR INFORMATION

1. 1. SPHERE OF APPLICATION

The WF Li-ion SOLAR PANEL is a group of components that work in unison as a long life autonomous energy source for Somfy Li-ion Volt WireFree™ products. This Product is designed for indoor use only.

Note: This product is designed to meet the energy requirements of Somfy WireFree™ Motor applications. This Solar Pack should be used for single motor shades only, two (2) or more motors should never be connected to one (1) solar pack source

Contents of the Pack include:

- (1) WF Li-ion SOLAR PANEL
- (1) Glass-Mount Adhesive
- (1) Alcohol wipe
- (1) Instructions
- (1) WF Li-ion SOLAR PANEL Mounting Brackets (2" & 4")

1. 2. LIABILITY

Before installing and using the WireFree Motorized window covering, please read these instructions carefully. In addition to the instructions provided in this guide, please also comply with the instructions set out in the enclosed **Safety instructions** document.

The WireFree Motorized window covering must be installed by a home motorisation and automation professional, in accordance with Somfy's instructions and the applicable regulations in the country of installation.

Any operation of the WireFree Motorized window covering outside the sphere of application described above is prohibited. Such operation shall exclude Somfy from all liability and invalidate the Somfy warranty, as will any failure to comply with the instructions given herein and in the enclosed **Safety instructions** document.

After installing the WireFree Motorized window covering, the installer must inform his customers of the operating and maintenance conditions for the WireFree Motorized window covering and must pass the operating and maintenance instructions on to them, as well as the enclosed **Safety instructions** document. Any After-Sales Service operation on the drive requires intervention by a home motorisation and automation professional.


Should any doubt arise during installation of the drive or for additional information, consult a Somfy contact or visit www.somfy.com.

 Safety Warning!

 Warning!

 Information


2. INSTALLATION

 These instructions are **mandatory** for the home motorisation and automation professional installing the drive.

 Never drop or mishandle the WF Li-ion SOLAR PANE should never be exposed to water.

2. 1. DETERMINE LOCATION OF SOLAR PANEL


The WF Li-ion SOLAR PANEL must always be installed indoors, and should be positioned to received direct sunlight for optimum performance..

 **Caution!** Never install the WF Li-ion SOLAR PANEL on any window glass allowing less than 65% light transmission (including Low E glass and/or window tinting), or obstructed by a window pane or bug screen. Always leave the photovoltaic cells unobstructed, do not put anything in front of them.



Note: WF Li-ion SOLAR PANEL should be installed/positioned in relation to the motor location (left or right side) Extension cables (purchased separately) should be used for installations that require the Solar Panel to be mounted beyond the length of the included cable connectors.

2. 2. MOUNTING THE WF Li-ion SOLAR PANEL.

 **Caution!** It is imperative that window hardware or framing does not interfere with the WF Li-ion SOLAR PANEL!

Determined the position of the WF Li-ion SOLAR PANEL (against window, within reach of wire harness) prior to application of 2-sided tape to insure proper adhesion the first time. Use brackets when direct-to-glass mounting is not advisable Please refer to the corresponding instructions.



2. 2. 1. Glass Mounting

⚠ Caution! Glass must be prepared prior to mounting WF Li-ion SOLAR PANEL to glass with adhesive strips. Important! The adhesive tape should never be touched directly with fingers (or other contaminants) prior to adhesion.

1) Clean solar panel bezel corners and window area with alcohol prep pad. Let dry for two minutes.

2) On a table, with the solar panel facing up, apply the 2-sided adhesive to four corners of the solar panel bezel.

Note: The tape is precut for your convenience in between the top (front) and bottom (back) liners. With your fingers, lift off each precut adhesive piece so that it remains attached to the "facer" material and the opposite side of the tape should then be released from the back liner. See Photo in Figure 1 and Figure 2.

3) Remove the liner of the applied adhesive. Position the bezel with solar panel facing to outdoors, then press

entire panel with firm, even pressure into the glass for 10- 15 seconds. The panel is now supported by the adhesive to glass bond but will require 24 hours of cure time to allow full strength characteristics. Do not disturb during this period.

Figure 1.
Glass Mount Adhesive

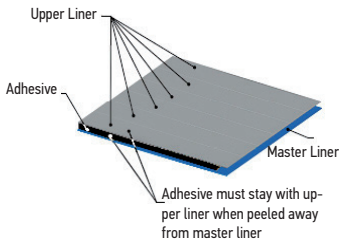
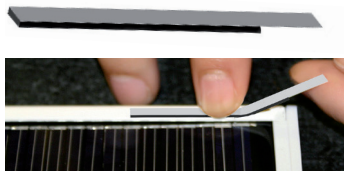


Figure 2.
Apply to all 4 corners

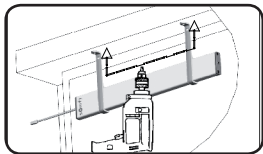


2. 2. 2. Bracket Mounting

These instructions are for bracket mounting of the Solar Pack solar panel. Brackets should be used when direct-to-glass mounting is not permissible, including the following conditions: to avoid collisions with moving windows (ex. casement or double-hung) or to mount to headrails (2» Tilt) or «roll-up cassettes».

Window Frame Mounting:

- A. For inside top of window frame mounting, place in the best suitable position and mark the hole location. See Figure 2.
 - B. Remove Solar Panel from brackets and affix brackets to window frame with wood screws.
 - C. Reinsert Solar Panel into proper position by snapping solar panel into brackets. Complete Solar Pack Installation as instructed.
- Skip remaining steps.



Head Rail or Roll-Up Cassette Mounting:

A. If new installation, determine whether 2" drop or 4" drop brackets best fit the application. The brackets should be oriented so that the solar panel will have direct access to daylight without blockage or shadows.

If this is an existing window covering installation, it is recommended to remove the window covering to best determine the fit of the brackets to headrail. The brackets should be oriented so that the solar panel will be exposed to Direct Sunlight without blockage or shadows.

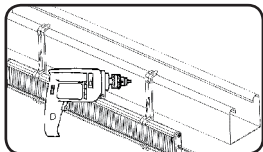
B. Depending upon head rail or cassette design, choose the horizontal or vertical hole orientation which provides best placement for mounting screws. Mark exact hole locations. See Figure 3.

Note: Cassettes will likely require upper hole location with screws driven in vertically. 2" venetian tilt or cord lift head rails will likely require lower screw hole and horizontal screw placement.

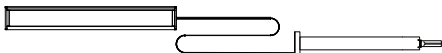
C. Utilize self-tapping machine screws to mount brackets into position.

D. Reinsert solar panel into proper position by snapping solar panel into brackets. Be certain not to damage window covering while mounting brackets.

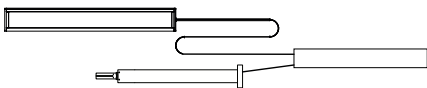
E. Mount Interior Window covering assembly into

**2. 3. CONNECTIONS**

⚠ Caution! Do not change the configuration of this system to include different connectors.



For motor with internal battery, connect the WF Li-ion SOLAR PANEL directly to the motor.



For motor without internal battery, connect the WF Li-ion SOLAR PANEL directly to the Li-ion battery pack.

2. 4. COMMISSIONING**Activation of the Motor**

If the WF Li-ion SOLAR PANEL is being installed as an upgrade to an existing Somfy WireFree™ motorized window covering installation, there is no need to reprogram the motor.

If the WF Li-ion SOLAR PANEL is being installed with a new Somfy WireFree™ motor, follow the motor installation guide, should motor require programming.

3. PRODUCT IN USE

3. 1. NORMAL OPERATION





After commissioning, the battery is trickle-charged by electrical energy generated by the solar panel. The energy is stored in the high capacity Li-ion battery (acting like a reservoir) and the system provides uninterrupted service through many climatic seasons. It is normal for the battery to gain more energy in summer as compared to winter. The WF Li-ion SOLAR PANEL converts the intensity of light to energy upon availability.




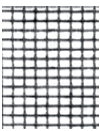
3. 2. EXCESSIVE ENERGY USE

If the motorized shade does not operate due to an excessively diminished battery, the battery may require a full recharge. This may be done with a Somfy Li-ion Charger. Excessive use resulting in a diminished battery charge. If the battery no longer provides adequate power to operate your motor, new batteries should be installed. There should be no need to replace any other Solar Pack components.

3. 3. WINDOW APPLICATION TABLES & GUIDELINES

| | | | | |
|-------------|---|---|---|---|
| Window Type |  |  |  |  |
| | SINGLE OR DOUBLE PANE OK | LIGHT TRANSMISSION 65% OR GREATER | WINDOW TINTING | INSIDE WINDOW ONLY |

| | | | | |
|---------------|--|--|--|--|
| Moving Window |  |  |  |  |
| | FIXED WINDOW | DOUBLE HUNG | SLIDING | CASEMENT |
| Concern | Clean Install | Caution: Avoid Panel Collision | Caution: Avoid Panel Collision | Caution: Panel Movement Will tug or tear Harness |
| Suggestions | | Limit Screw in track | Limit Screw in Track | Cable tie near corner |

| | | |
|-------|---|---|
| Avoid |  |  |
| | AWNINGS OR DEEP ROOF EVES | WINDOW DIVIDERS OVERLAPPING SOLAR PANEL |
| Avoid |  |  |
| | VEGETATION BLOCKING LIGHT | BUG SCREENS |

3. 4. TIPS AND RECOMMENDATIONS FOR USE

| Observations | Possible causes | Solutions |
|---------------------|---|---|
| During Installation | The motor does not work | <ol style="list-style-type: none"> 1. Verify wires have secure connection, and that wires are not cut. 2. Verify battery has been charged to 100%. 3. See Troubleshooting Section of Specific Motor. |
| | WF Li-ion SOLAR PANEL does not adhere to glass after initial application. | Remove panel and adhesive. Clean glass with glass prep pad. Dry. Apply new adhesive as directed. |
| | Sliding window collides with solarpanel after mounting. | <ol style="list-style-type: none"> 1. Install a window bumper to prevent collision. 2. Install optional solar panel mounting bracket. |

CE SOMFY ACTIVITES SA, F-74300 CLUSES as manufacturer hereby declares that the drive covered by these instructions and used as intended according to these instructions is in compliance with the essential requirements of the applicable European Directives and in particular of the Machinery Directive **2006/42/EC**, and the Radio Directive **2014/53/EU**. The full text of the EU declaration of conformity is available at www.somfy.com/ce. Antoine Crézé, Approval manager, acting on behalf of Activity director, Cluses, 06/2018.

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