

Solar Pack

EN - Installation instructions

HOME Somfy.

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1. Introduction

The Solar Pack is a group of components that work in unison as a long life energy source for Somfy 12 Volt WireFree™ motors. This Product is designed for indoor use only.

Contents of the Pack include: (1) Solar Panel in Bezel (1) Battery Tube with NiMH Battery Installed (1) Wire Harness (1) Glass-Mount Adhesive (1) Alcohol wipe (1) Instructions

Note: This product is designed to meet the energy requirements of Somfy 12 Volt WireFree™ Motor applications. DO NOT exceed the following:

A. Maximum Torgue and blind dimensions. See motor data sheets / instruction Manuals.

B. Solar Pack Performance Tables (see Section 8).

2. Safety

2.1 Safety and Responsibility

Before installing and using this product, please read the installation guide carefully. It is recommended that Solar Pack be installed by a professional motor installer, for whom these instructions are intended.

Care must be taken for both new and existing installations due to the physical mounting location of the motorized window covering - likely at the top of an interior window. Consequently, pay attention to your personal safety in regards to proper use of ladders. Care must also be taken to not drop hand tools or Solar Pack components from an extended height.

Any usage outside of applications defined by Somfy constitutes noncompliance, and is therefore not covered by the warranty. In this event, as for all usage not consistent with the instructions given herein, Somfy accepts no responsibility for harm or damage. Never begin installing without first checking the compatibility of this product with the associated equipment and accessories.

Power Sources for 12 Volt WireFree™ Motors							
WireFree™ Motor	12 Volt	Battery Wand	Battery Tube	Solar Pack			
Roll Up RTS	I	\checkmark	\checkmark				
Roll Up IR	C.	\checkmark	\checkmark				
Tilt RTS		\checkmark	\checkmark	\checkmark			
Tilt IR		\checkmark	\checkmark				
Cord Lift RTS	Ú	\checkmark	\checkmark	\checkmark			

2.2 Specific Safety Advice

- 1) Never pierce the solar panel or its bezel frame.
- 2) Never put anything onto the solar panel (risk of scratching or breakage), especially during installation.
- 3) Once installed, never subject the wire harness or other components to strain, pinching, or cutting caused by moving objects.
- 4) Dispose of electronic components and batteries in accordance with local laws. Do not incinerate.
- 5) Never immerse this product in liquid (s).
- 6) Avoid Impacts
- 7) Do Not Recharge the battery with any charger other than a Somfy Solar Pack Charger.

The solar panel is a fragile part. Do not drop it. If Dropped, do not install as damage may not be visibly detectable and reduced performance may occur. Refer to the Instruction Manual or Contact your Somfy Representative

3. Installation

3.1 Determine Location of Solar Panel

The solar panel must always be installed indoors, directly against the window glass so as to allow as much natural light as possible to reach the panel.

Caution! Never install the 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.

The three components which make up the Solar Pack must be installed on the same side as the WireFree[™] motor.

Somfy recommends that all components be fitted systematically in order that all components may be connected to the wire harness easily, and that the wire harness does not interfere with the free movement of the interior window covering.

Please Refer to the Solar Pack Performance Tables Section 8.0 to confirm proper usage per blind and window orientation.

3.2 Mounting the Solar Panel.



Caution! It is imperative that window hardware or framing does not collide with the solar panel!

Careful! Do not damage the wire harness cables during installation.

Determined the position of the solar panel (against window, within reach of wire harness) prior to application of 2-sided tape to insure proper adhesion the first time.

3.2.1 Glass Mounting



Caution! To insure a secure adhesive hold over a long period, prepare the inside window glass prior to mounting the solar panel.

Important! The adhesive tape should never be touched directly with fingers (or other contaminates) 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 (facer) and bottom (backer) 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 "facers" 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.



Battery Tube: Located near the top of the window frame and near the motor side. May be hidden from view.



Panel:

Located near the top of the window frame and near the motor side. When fully open, shade or fascia may help conceal panel from inside view.



Installed: When fully open, shade or fascia may help conceal Solar Pack from inside view. Wire Harness is tucked away.

Figure 1. Glass Mount Adhesive



Figure 2. Apply to all 4 corners



3.3 Battery State of Charge

The Battery is shipped from the factory inside the battery tube with a partial charge only.

3.3.1 Battery Preparation

Have a service professional fully charge the battery using the compatible Somfy Solar Pack Rapid Charger (REF#9015781 - Solar Pack Charger).

Important! Refer to Solar Pack Wall Charger Instructions. Caution! Use of another battery charger is a safety hazard, is prohibited and voids the Somfy Warranty. Disconnect from AC wall receptacle upon completion of charge. Battery must be fully charged prior to installation. Do not exceed 5 days from time of 100% charge to installation or performance may not

3.4 Battery Tube Install Location

be met.

Once conditioned with a pre-charge, the battery tube assembly can be secured and hidden from view either behind, inside or next to the window covering product hardware.

The battery tube is compatible with Somfy Mounting Clips designed for Shangri-La (REF# 9013266) & Silhouette (REF#9013264) window covering products.

For outside of head rail mounting, optional battery tube wall mounting clips are available (REF#9013263) for either vertical or horizontal positioning. For blinds with box head rails, room may exist to place the battery inside the rail without interference.

Caution! If installing the battery vertically, always position it with the cable output upwards to reduce unrestrained wire from catching the shade.

4. Connections

Caution! The wiring harness connecting the Solar Pack components must be protected from the movement of the motorized window covering.

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

1) Connect the wire harness to the motor.

- 2) Connect the solar panel to the wire harness
- 3) Connect the battery tube to the wire harness

5. Commissioning

5.1 Activation of Motor

If the Solar Pack is being installed as an upgrade to an existing Somfy WireFree™ motorized shade installation, there is no need to reprogram the motor.

If the Solar Pack is being installed with a new Somfy WireFree[™] motor, follow the motor installation guide.



Standard Installation Plan of Roll-Up Shade.

6. Product in Use

6.1 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 NiMH 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 Solar Panel converts the intensity of light to energy upon availability.

6.2 Excessive Energy Use

Caution! If daily motor activations exceed recommended cycles per day as stated in the Solar Pack Performance Chart, the solar panel will not be able to "replenish" the battery as designed.

If the motorized shade does not operate due to an excessively diminished battery, the battery may require a full recharge by a Somfy Service provider. If the battery no longer provides adequate power to operate your motor, a freshly charged replacement battery & tube assembly may be ordered from your Somfy dealer (REF#9015624) and there is no need to replace any other Solar Pack components.

7 Window Application Tables & Guidelines





Steps to determine Solar Zone:

- 1a. Choose city or region on map based on map color.
- 1b. Choose closest city from tables provided.
- 2. Identify corresponding solar zone in the chart.
- 3. Determine window orientation (facing out north, south, east or west).
- 4. Determine shade drop.
- 5. Apply data to chart. Cross reference for answer.

NOTE: 1 cycle = 1 Up / 1 Down movement. Do not exceed listed specification.

	SOLAR PACK TROUBLESHOOTING					
	The motor does not work	 Verify wires have secure connection, and that wires are not cut. Verify battery has been charged to 100%. See Troubleshooting Section of Specific Motor (Roll-Up,Cord-Lift, or Tilt User Manual). 				
During Installation	Solar Panel does not adhere to glass after initial application.	1. Remove panel and adhesive. Clean glass with glass prep pad. Dry. Apply new adhesive as directed.				
Du Insta	Sliding window collides with solar panel after mounting.	 Install a window bumper to prevent collision. Install optional solar panel mounting bracket. 				
	Solar Pack loses charge BEFORE 3-5 years of use.	 Contact Service provider to recharge battery to 100%. Review Solar Pack Performance Chart & Section 7.0 Window Application Tables & Guidelines. 				
After Installation	Solar Pack loses charge AFTER 3-5 years.	Purchase fully charged replacement Solar Pack Battery from your Somfy Reseller REF #9015624.				



Solar Pack Performance Tables & Solar Zones

SOLAR PACK FOR WIREFREE™ MOTORS REPLACEMENT ENERGY CHART BASED ON CYCLES / DAY FOR ROLL-UP, CORD LIFT & TILT						
Cycles per day for this orientation and shade size						
SHADE LENGTH	North	West	East	South	Region	
up to 5 feet (1.5 M)	1	1	1	1	Zone 0	
5 to 8 feet (1.5 M - 2.4M)	N/A	N/A	N/A	N/A	Zone u	
up to 5 feet (1.5 M)	1	1	1	2	Zone 1	
5 to 8 feet (1.5 M - 2.4M)	N/A	1	N/A	1		
up to 5 feet (1.5 M)	1	2	2	3	Zone 2	
5 to 8 feet (1.5 M - 2.4M)	N/A	1	1	1		
up to 5 feet (1.5 M)	2	2	2	3	Zone 3	
5 to 8 feet (1.5 M - 2.4M)	1	1	1	2		
up to 5 feet (1.5 M)	2	3	3	4	Zone 4	
5 to 8 feet (1.5 M - 2.4M)	1	2	1	2		
up to 5 feet (1.5 M)	2	3	3	4	Zone 5	
5 to 8 feet (1.5 M - 2.4M)	1	2	1	2	20110-0	
up to 5 feet (1.5 M)	2	3	3	4	Zone 6	
5 to 8 feet (1.5 M - 2.4M)	1	2	2	3		



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