

## Somfy 2400961

# Somfy 2400961 Solarset: Solar Power Kit Instruction Manual

Model: 2400961 | Brand: Somfy

## 1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Somfy 2400961 Solarset. The Solarset is designed to provide an independent solar power solution for compatible Somfy gate and garage door motors, eliminating the need for a 230V mains power supply.

The system utilizes a photovoltaic panel to charge batteries, which then power your motor. It offers reliable operation, even during periods of low sunlight, with an autonomy of up to 45 days without direct sun exposure (requiring approximately 2 hours of sun to recharge for 10 usage cycles).

Please read these instructions carefully before installation and use to ensure safe and efficient operation.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in injury or damage to the product.**

- Installation must be performed by qualified personnel in accordance with local electrical codes and regulations.
- Ensure all power sources are disconnected before performing any installation or maintenance.
- Do not attempt to modify the components of the Solarset.
- Keep children and pets away from the installation area during setup and operation.
- The photovoltaic panel must be securely mounted to prevent it from falling.
- Use only specified battery types and ensure correct polarity when connecting.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation:

- 1 x Photovoltaic Panel with Inclined Support
- 1 x Battery Box with Necessary Cables
- 1 x Compass (for panel orientation)
- *Note: Batteries are required but not included with this kit. Please refer to the specifications for compatible battery types.*



Figure 1: Somfy Solarset components, including the battery box and photovoltaic panel.

## 4. SPECIFICATIONS

Feature	Detail
Model Number	2400961
Brand	Somfy
Dimensions (L x W x H)	86 x 38 x 13 cm
Weight	9.76 kg
Color	Gray
Material	ABS
Power Source	Solar (replaces 230V mains)
Battery Autonomy	Up to 45 days without sunlight (2 hours of sun for 10 cycles)

Included Components	Photovoltaic panel with support, battery box with cables, compass
Batteries	Required, not included
Compatibility	Somfy EVOLVIA, EXAVIA, SLIDYMOOVE motorizations. Also SGA, SGS, GDK (purchased from mid-2009/Nov 2009).
Country of Origin	France

## 5. SETUP AND INSTALLATION

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This section outlines the general steps for installing the Somfy Solarset. Professional installation is recommended.

### 5.1 Site Selection and Panel Orientation

- Choose a location for the photovoltaic panel that receives maximum direct sunlight throughout the day, free from shadows cast by trees, buildings, or other obstructions.
- Use the provided compass to orient the panel towards the south (in the Northern Hemisphere) for optimal solar exposure.
- The inclinable support allows adjustment of the panel's angle to maximize sun capture based on your geographical location and season.



Figure 2: Example installation of the solar panel on a gate pillar.

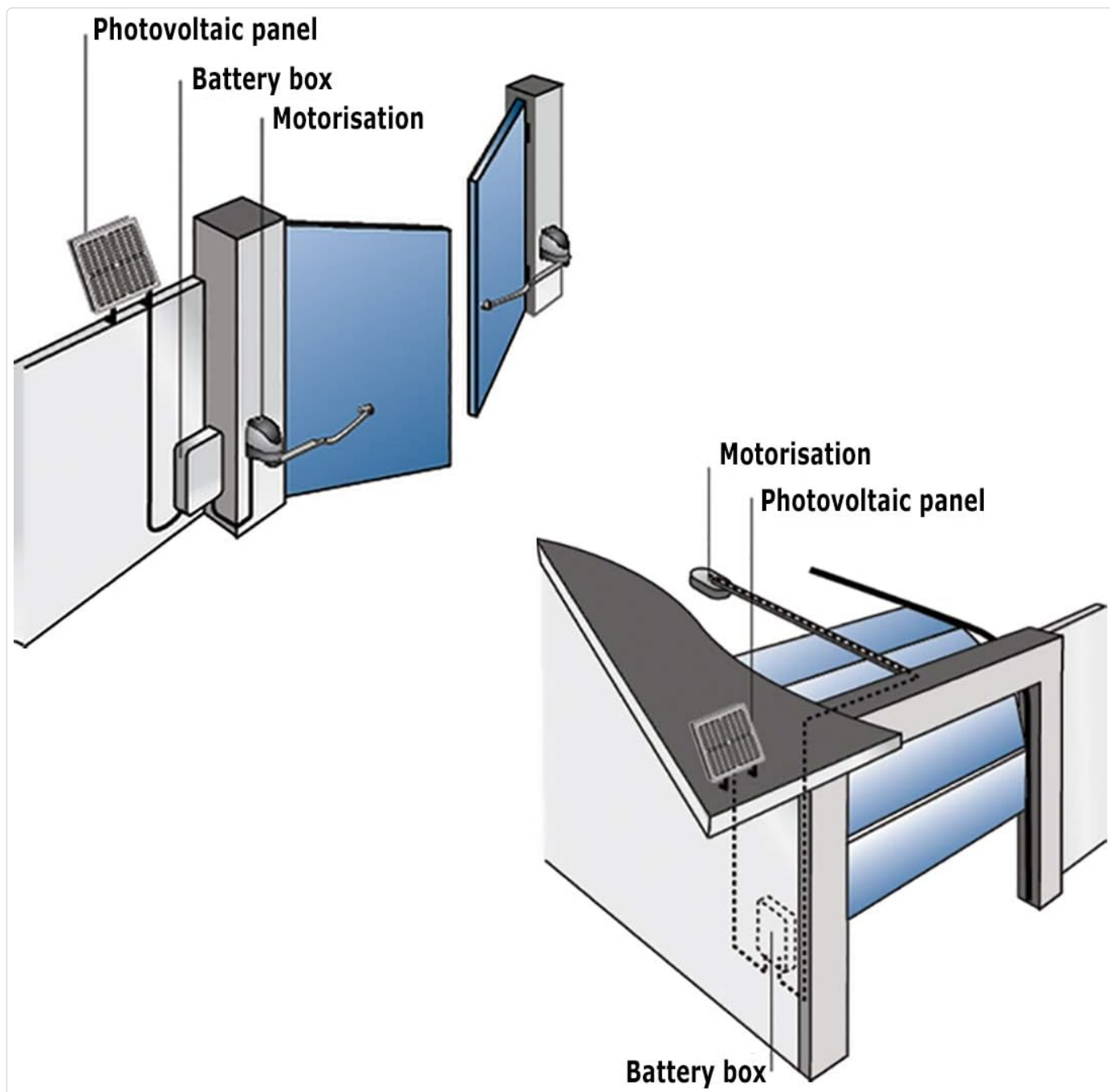


Figure 3: Schematic of solar panel and battery box placement for gate and garage door motorizations.

## 5.2 Mounting the Components

1. **Mount the Photovoltaic Panel:** Secure the panel using its inclinable support to a stable surface (e.g., a wall, pillar, or roof) in the chosen optimal location.
2. **Mount the Battery Box:** Install the battery box in a protected, easily accessible location, ideally close to the motorization unit. Ensure it is protected from direct weather exposure if not rated for outdoor use.

## 5.3 Wiring Connections

The battery box comes with pre-wired cables for simplified connection. Follow the specific wiring diagrams provided with your Somfy motorization unit and the Solarset for precise connections.

- **Connect Batteries:** Insert the required batteries (not included) into the battery box, ensuring correct polarity. The pre-wired cables within the box facilitate this connection.
- **Connect Photovoltaic Panel to Battery Box:** Connect the cable from the photovoltaic panel to the designated input on the battery box.
- **Connect Battery Box to Motorization:** Connect the output cable from the battery box to the power input terminals

of your compatible Somfy gate or garage door motor.

**IMPORTANT: Always refer to the detailed wiring diagrams in your motorization's instruction manual for specific connection points and procedures.**

## 6. OPERATING INSTRUCTIONS

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Once installed and connected, the Somfy Solarset operates automatically to power your motorization.

### 6.1 Initial Power-Up

1. Ensure all connections are secure and correct.
2. Allow the photovoltaic panel to charge the batteries for several hours in direct sunlight before initial use, especially if the batteries were fully discharged.
3. Observe the indicator lights on the battery box (if present) to confirm solar charging and motor power status.

### 6.2 Normal Operation

The Solarset continuously charges the batteries using solar energy. The stored energy then powers your gate or garage door motor as needed. The system is designed to maintain consistent performance comparable to a 230V power supply.

- The system provides power for approximately 10 cycles of use for every 2 hours of direct sunlight.
- The battery autonomy ensures operation for up to 45 days even without any sunlight.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Somfy Solarset.

- **Photovoltaic Panel Cleaning:** Periodically clean the surface of the solar panel to remove dust, dirt, leaves, or snow. A clean panel ensures maximum sunlight absorption and charging efficiency. Use a soft cloth and water; avoid abrasive cleaners.
- **Connection Inspection:** Annually inspect all electrical connections for corrosion, looseness, or damage. Tighten any loose connections.
- **Battery Check:** If you experience reduced performance, check the condition of the batteries. Replace them according to the manufacturer's recommendations or if they show signs of degradation.
- **Panel Orientation Check:** Verify that the panel remains optimally oriented towards the sun, especially after strong winds or if seasonal adjustments are desired.

## 8. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Somfy Solarset.

Problem	Possible Cause	Solution
Motor not responding or operating slowly.	Low battery charge. Insufficient sunlight. Faulty battery.	Ensure the solar panel is clean and receives direct sunlight. Allow several hours for charging. Check battery connections. Replace batteries if old or damaged.
Solar panel not charging batteries.	Panel is dirty or shaded. Loose connection. Damaged panel.	Clean the solar panel. Remove any obstructions causing shade. Check wiring between panel and battery box. Contact support if panel is damaged.



System indicators (if present) are off.	No power to the battery box. Deeply discharged batteries.	Verify all power connections. Allow extended charging time in direct sunlight. Check battery condition.
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If you are unable to resolve an issue using the troubleshooting guide, please contact Somfy customer support.

## 9. WARRANTY AND SUPPORT

### 9.1 Manufacturer's Warranty




The Somfy 2400961 Solarset comes with a **3-year manufacturer's warranty**. The duration of spare parts availability is equal to the commercial warranty period.

**Please retain your proof of purchase for warranty claims.**

### 9.2 Customer Support

For technical assistance, installation queries, or warranty support, please visit the official Somfy website or contact their customer service department. Contact information can typically be found on the Somfy website or product packaging. Somfy is committed to providing support for their products and reducing environmental impact. They offer eco-designed products and solutions to improve energy efficiency.

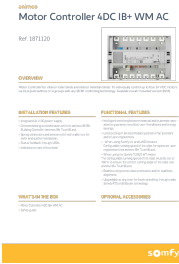
### Related Documents - 2400961

	<a href="#">Somfy Photoelectric Cells Installation and Maintenance Guide</a> This guide provides instructions for the installation, alignment, and maintenance of Somfy photoelectric cells, ensuring safe and efficient operation of automated systems.
	<a href="#">Rollixo Optimo RTS Installation Guide - Somfy Garage Door Opener</a> Detailed installation guide for the Somfy Rollixo Optimo RTS garage door opener system. Includes wiring, setup, and parameter configuration instructions.
	<a href="#">Somfy Slidymoove 300/600 Freevia: Guide de Sécurité et d'Installation</a> Instructions de sécurité essentielles et guide d'installation pour les motorisations de portail Somfy Slidymoove 300, Slidymoove 600 et Freevia. Couvre l'installation, l'utilisation sûre, la maintenance et la prévention des risques.



[Somfy Elixo 500 24V Installation Manual](#)

A comprehensive installation guide for the Somfy Elixo 500 24V automatic gate opener, detailing safety precautions, product components, installation steps, wiring, parameter settings, and troubleshooting.



[Somfy animeo Motor Controller 4DC IB+ WM AC Technical Specifications](#)

Comprehensive technical specifications, overview, installation, and functional features for the Somfy animeo Motor Controller 4DC IB+ WM AC (Ref. 1871120), including wiring diagrams and electrical characteristics.



[Somfy ALTUS 40 RTS Motor Installation and Operation Guide](#)

Comprehensive guide for installing and operating the Somfy ALTUS 40 RTS tubular motor, including setup, programming, and troubleshooting.