THE SOLAR SOLUTION 100% AUTONOMOUS, WITHOUT WORK

- **Autonomous motorization system** for roof and facade roller shutters, operating with solar energy, a free, clean and renewable energy.
- **No wiring**: AUTOSUN does not need to be connected neither to the electrical network nor to control points (SIMU-Hz radio technology), which means no degradation of interior walls.
- **Optimized outputs**: AUTOSUN has been designed to run in most geographical area.
- **Autonomy of the system**: 15 days without sun, 2 cycles per day.
- New motor, with more intelligence, for a simple integration and installation!
- A wide range of batteries.
- A new battery charger.
- Compatible with sequential & functional transmitters.

**New DESIGN QUARTER ROUND:**

to reduce needed space behind the guide rail or inside the Roller Shutter box.

**SOLAR MOTORIZATION**

**AUTOSUN 2**

**RENO TRADI TUNNEL CWS**
**REFERENCES**

**TECHNICAL CHARACTERISTICS**

- Radio technology simu-Hz
- Adjustment of the end-limits: automatic, semi-automatic, manual
- STOP ON OBSTACLE function: the motor will stop during the closing if it meets an obstacle.
- FROST DETECTION function: the motor will stop during the opening if the shutter curtain is stuck in the guide rails by frost or if the bottom lath is locked.
- INTERMEDIARY POSTION: which can be adjusted to the user’s need. Push “STOP” button of the transmitter to move the roller shutter to the favorite position.

### POWER SUPPLY 12 VDC

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>TORQUE</th>
<th>SPEED</th>
<th>POWER</th>
<th>CURRENT</th>
<th>La</th>
<th>Lb</th>
<th>Lc</th>
<th>WEIGHT</th>
<th>x1</th>
<th>x10</th>
<th>x100</th>
</tr>
</thead>
<tbody>
<tr>
<td>T3,5 E Hz DC - 3/23</td>
<td>3Nm</td>
<td>23 rpm</td>
<td>17W</td>
<td>1.4A</td>
<td>433mm</td>
<td>457mm</td>
<td>471mm</td>
<td>0.77kg</td>
<td>2009080</td>
<td>2009083</td>
<td>2009086</td>
</tr>
<tr>
<td>T3,5 E Hz DC - 6/18</td>
<td>6Nm</td>
<td>18 rpm</td>
<td>26W</td>
<td>2.2A</td>
<td>433mm</td>
<td>457mm</td>
<td>471mm</td>
<td>0.8kg</td>
<td>2009081</td>
<td>2009084</td>
<td>2009087</td>
</tr>
<tr>
<td>T3,5 E Hz DC - 10/12</td>
<td>10Nm</td>
<td>12 rpm</td>
<td>30W</td>
<td>2.4A</td>
<td>433mm</td>
<td>457mm</td>
<td>471mm</td>
<td>0.8kg</td>
<td>2009082</td>
<td>2009085</td>
<td>2009088</td>
</tr>
</tbody>
</table>

**NEW**

- 2-point connector (male) for battery
- 2-point connector (female) for solar panel

<table>
<thead>
<tr>
<th>Ø38.2</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 holes Ø 3.1 x 10 mm for Ø 3.9 mm Plastite screws</td>
<td></td>
</tr>
</tbody>
</table>

**POWER SUPPLY** 12 Volts

- **END-LIMIT** Electronic system with operating limited to 3 min.
- **PROTECTION INDEX** IP 44
- **POWER CABLE** Long. 0.2 meters, 3x0.75 mm² wires, black H05 BBF with two connectors
- **SIMU-Hz RADIO FREQUENCY** 433.42 MHz
- **SECURE COMMUNICATION** Encrypted control orders + Rolling code with 16 million possible combinations
- **RANGE** ~200m in free field and ~20m through 2 reinforced concrete walls
- **MOTOR HEAD THICKNESS** 14mm
- **END-LIMIT ADJUSTMENT** every 56 cycles during 4 cycles

**STANDARDS**

- EN 13659

**WARRANTY**

- 5 years for Motor Battery Panel

- 2-point connector (male) for battery
- 2-point connector (female) for solar panel
WIDE RANGE OF BATTERIES TO SUIT AT BEST ALL INSTALLATION

- 1 battery stick with alu cover and its cable of 20cm.
- 1 battery stick with alu cover and its cable of 60cm.
- 1 naked battery, without alu cover and its cable of 25cm. Fixing by pop rivet of the specific brackets and elastics to guarantee the fixing.
- New connectors: reduced size of the connector to ease the integration inside the side frame.

• Battery with alu cover: possibility to connect and disconnect the battery cable easily without opening the roller shutter box. Indeed, once the plastic cover of the stick is removed you can unplug/plug the battery cable.

INSTALLATION ADVANTAGES RECOMMENDED BATTERIES

Battery outside the Roller Shutter box:
- Between the guide rail and the wall
- Behind the Roller Shutter box
Easy access to the battery for resetting the system or replacement of the battery
- Battery with alu cover and its cable of 30cm. Fixing with adhesive or brackets.
- Battery with alu cover and its cable of 60cm. Fixing with adhesive or brackets.

Battery inside the Roller Shutter box
Full integration in factory, nothing to do on site, the roller shutter is ready for use/installation on site.
- Battery with alu cover and its cable of 30cm. Fixing with adhesive or brackets.
- Naked battery and its cable of 25cm. Fixing with specific brackets & elastics.

TECHNICAL CHARACTERISTICS

BATTERY Ni-MH NOMINAL VOLTAGE 12V CAPACITY 2.2 Ah AMBIENT TEMPERATURE OF USE from -20°C to +70°C PROTECTION INDEX IP X4 LIFETIME ± 8 years
DIMENSIONS & WEIGHT
naked battery 430 x 23.5mm - 520 gr
570 x 27 x 27 mm with 0.3 m cable (2-point connector) - 730 gr
570 x 27 x 27 mm with 0.6 m cable (2-point connector) - 760 gr

REFERENCES

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>x 1</th>
<th>REFERENCE x 10</th>
<th>REFERENCE x 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naked battery</td>
<td></td>
<td>9020608</td>
<td>9020628</td>
</tr>
<tr>
<td>Battery stick + cable 30cm</td>
<td>9020634</td>
<td>9021212</td>
<td></td>
</tr>
<tr>
<td>Battery stick + cable 60cm</td>
<td>9020635</td>
<td>9021213</td>
<td></td>
</tr>
</tbody>
</table>

BATTERY ACCESSORIES

SET OF 20 ADHESIVES BATT STICK (lenght x width = 550 x 15 mm)
SET OF 2 WEDGES BATTERY STICK (dimension: 23 x 19 mm)
BRACKET WITH ELASTIC TO FIX NAKED BATTERY
**SOLAR PANELS**

- Solar panel in resin with fixing holes
- Aesthetic design
- 2 possible fixing:
  - Directly on the roller shutter box by pop rivets
  - On the inclined brackets, on the roller shutter box or on the wall to capture more sun.

**NEW SOLAR PANEL WITH ADHESIVE** to stick it directly on the roller shutter box without making holes

---

**TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>resin panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>TYPE OF PANEL</td>
<td>photovoltaics monocristalin</td>
</tr>
<tr>
<td>PROTECTION INDEX</td>
<td>IP X4</td>
</tr>
<tr>
<td>DELIVERED VOLTAGE</td>
<td>195.8 mA maxi.</td>
</tr>
<tr>
<td>POWER</td>
<td>3.2 W</td>
</tr>
<tr>
<td>TYPE OF CABLE</td>
<td>Cable of 700mm with 2-point connector type Molex plug (male) and rubber cable-gland for impermeability</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>470 x 60 x 6 mm</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>230 g</td>
</tr>
</tbody>
</table>

**REFERENCES**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>REFERENCE x 1</th>
<th>REFERENCE x 10</th>
<th>REFERENCE x 40</th>
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</thead>
<tbody>
<tr>
<td>Solar panel with holes</td>
<td>9019032</td>
<td>9019031</td>
<td>9018382</td>
</tr>
<tr>
<td>Solar panel with adhesive</td>
<td>9020627</td>
<td>9020626</td>
<td>-</td>
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</table>

**SOLAR PANEL ACCESSORIES**

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>REFERENCE x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solar panel bracket</td>
<td>9019683</td>
</tr>
<tr>
<td></td>
<td>Extension cable for solar panel (5m)</td>
<td>9019722</td>
</tr>
</tbody>
</table>

**BATTERY CHARGER**

- New battery charger with 2 plugs: one for the EU and another one for the US power supply

**TECHNICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>CLASS</th>
<th>double insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTENSITY DELIVERED</td>
<td>800 mA max ±10%</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>118 x 62 x 35 mm</td>
</tr>
<tr>
<td>PROTECTION INDEX</td>
<td>IP 30</td>
</tr>
<tr>
<td>INPUT VOLTAGE</td>
<td>100-240VCA ±10%, 50/60Hz</td>
</tr>
<tr>
<td>BATTERY</td>
<td>Ni-MH</td>
</tr>
<tr>
<td>CONNECTORS</td>
<td>2-point connector Molex (Male) type</td>
</tr>
</tbody>
</table>

**REFERENCES**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>REFERENCE x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery charger</td>
<td>9020638</td>
</tr>
</tbody>
</table>
AUTOSUN® SOLAR SOLUTION, 100% AUTONOMOUS, WITHOUT WORKS

Efficient solution
- Compatible for RENOVATION or NEW installation.
- Powerful Battery: autonomy of 15 days without sun.
- Solar panel: one solar panel needed whatever the orientation and the motor torque.

A well-equipped roller shutter
- Roller shutter powered by solar energy.
- Radio motor (no wiring).
- Radio SIMU Hz technology, well known on the market.
- Stop on obstacle.
- Frost detection.
- Compatible with LiveIn connected solution and all sequential and functional transmitters.
- Intermediary position.

Aesthetic solar panel
- Discreet integration on the roller shutter box or on the wall, possibility to deport the solar panel with an extension cable.

FOR A GOOD INSTALLATION
- Choose the most appropriate motor torque to the dimensions of the roller shutter.
- Load the battery before assembling or installation thanks to the battery charger.
- Make sure that the solar panel is fixed to capture as many sun rays as possible.
- Make sure that there is no shadow on the solar panel (roof, tree…).
KIT REFERENCES (SOLAR PANEL, BATTERY, MOTOR)

The kit is made up of one motor, one solar panel and battery in alu cover (cable 60cm), and is delivered in a single packaging, to meet at best installer needs or for one renovation.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>T3.5EHz 3/23 motor + battery with cable of 60cm + solar panel</td>
<td>T3.5EHz 3/23 12V + SOL KIT EXT</td>
<td>2009398</td>
</tr>
<tr>
<td>T3.5EHz DC 6/18 motor + battery with cable of 60cm + solar panel</td>
<td>T3.5EHz 6/18 12V + SOL KIT EXT</td>
<td>2009399</td>
</tr>
<tr>
<td>T3.5EHz DC 10/12 motor + battery with cable of 60cm + solar panel</td>
<td>T3.5EHz 10/12 12V + SOL KIT EXT</td>
<td>2009400</td>
</tr>
<tr>
<td>Solar panel with fixing holes (9019032) + battery with cable of 30cm (9020634)</td>
<td>SOLAR KIT EXTERIOR C0.3M/1</td>
<td>9021214</td>
</tr>
<tr>
<td>Solar panel with fixing holes (9019032) + battery with cable of 60cm (9020635)</td>
<td>SOLAR KIT EXTERIOR C0.6M/1</td>
<td>9021215</td>
</tr>
</tbody>
</table>

AFTER SALES CABLE REFERENCES

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DESCRIPTION</th>
<th>REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOTOR cable: enable to keep the battery and the solar panel AUTOSUN 1 with one motor AUTOSUN 2</td>
<td>9020461</td>
<td></td>
</tr>
<tr>
<td>BATTERY cable: enable to keep the motor and the solar panel AUTOSUN 1 with one battery AUTOSUN 2</td>
<td>9020639</td>
<td></td>
</tr>
</tbody>
</table>

COMPATIBLE COMMANDS & AUTOMATIC DEVICES

TO PILOT A ROLLER SHUTTER DIRECTLY

- WALL TRANSMITTER MEMORY-HZ
- RADIO WALL TRANSMITTER 1 CHANNEL
- RADIO REMOTE CONTROL 1 CHANNEL
- RADIO SEQUENTIAL TRANSMITTER
- RADIO MICRO-TRANSMITTER
- RADIO REMOTE CONTROL TSA +
- RADIO KEYPAD

TO PROGRAM, AUTOMATE AND CENTRALIZE THE SHUTTERS

- RADIO WALL TRANSMITTER 5 CHANNELS
- RADIO REMOTE CONTROL 5 CHANNELS
- RADIO REMOTE CONTROL COLOR MULTI
- RADIO REMOTE CONTROL TIMER MULTI
- RADIO REMOTE CONTROL TIMER EASY
- RADIO SUN SENSOR

FOR CONTROLLING ROLLER SHUTTERS FROM A SMARTPHONE OR A TABLET

NEW LiveIn2 BOX + Dedicated App.

A DEDICATED WEBSITE
www.livein.simu.com

ALL THE INFO AVAILABLE ONLINE FOR YOUR CUSTOMER TO FIND OUT ALL ABOUT THE SOLUTION.