SOLAR MOTORIZATION



AUTOSUN 2



THE SOLAR SOLUTION 100% AUTONOMOUS, WITHOUT WORK

RENO

- 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.

TRADI

TUNNEL

- Optimized outputs: AUTOSUN has been designed to run in most geographical area.
- Autonomy of the system: 45 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.



CWS

THE SOLAR SOLUTION INCLUDES A MOTOR T3.5 E HZ DC, A SOLAR PANEL AND A BATTERY

MOTOR T3.5 E HZ DC





- 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 POSITION: which can be adjusted to the user's need. Push "STOP" button of the transmitter to move the roller shutter to the favorite position.

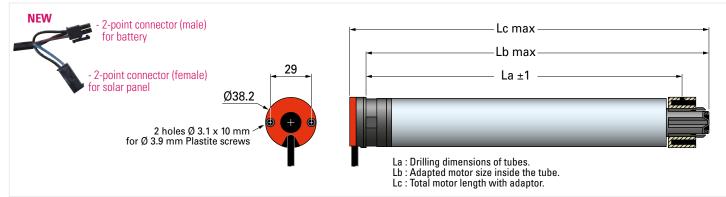
- Soft start function: at DOWN end limit.
- Soft stop function: at UP & DOWN end limit.
- Compatible with all SIMU-Hz transmitters and automatic devices, including Hz sequential transmitter and Hz SUN sensor.
- Adjustment of the end limit with reduced speed in manual mode to ease the setting.
- Motor Sleeping and Waking up modes are directly done from the transmitter, no need to have access to the battery. The consumption is thus reduced to the minimum for storage or transportation of the roller shutter and the battery charge is then preserved. The motor will be woken up on site directly from the transmitter as well.
- New motor cable with 2 connectors 2 points and with mistakeproofing. Reduced size of the connectors to ease the integration inside the side frame.

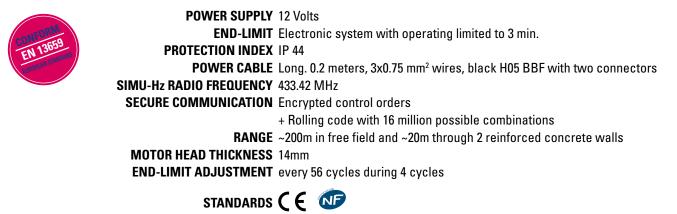
REFERENCES

POWER SUPPLY 12 VDC

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

TECHNICAL CHARACTERISTICS





BATTERIES



2	different	cable	lengths
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WIDE RANGE OF BATTERIES TO SUIT AT BEST ALL INSTALLATION

- 1 battery stick with alu cover and its cable of 30cm.
- 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.



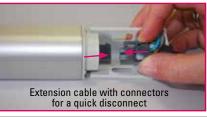
delivered with

to the battery

2 brackets

attached

• 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
the ro	ery outside oller shutter box: ween the guide rail and the wall hind 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. 	
	tery inside 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. 	

delivered with

on the battery

2 covers not fixed

TECHNICAL CHARACTERISTICS

REFERENCES

BATTERY	Ni-MH	DESCRIPTION		REFERENCE	
NOMINAL VOLTAGE	12V		x 1	x 10	X20
CAPACITY		Naked battery	9020808	-	9020628
AMBIENT TEMPERATURE OF USE	from -20°C to +70°C	•			
PROTECTION INDEX	IP X4	Battery stick + cable 30cm	9020634	9021212	
	± 8 years	Battery stick + cable 60cm	9020635	9021213	
DIMENSIONS & WEIGHT	naked battery 430 x 23.5mm - 520 gr				
	570 x 27 x 27 mm with 0.3 m cable (2-point cor	nnector) - 730 gr			

 $570 \times 27 \times 27$ mm with 0.6 m cable (2 point connector) - 760 gr

KIT REFERENCES

PRODUCT	DESCRIPTION	REFERENCE x 1
Battery with cable of 30cm (9020634) + Solar panel with fixing holes (9019032)	SOLAR KIT EXTERIOR CO.3M/1	9021214
Battery with cable of 60cm (9020635) + Solar panel with fixing holes (9019032)	SOLAR KIT EXTERIOR CO.6M/1	9021215

BATTERY ACCESSO	RIES REFERENCES	NE	w
SET OF 20 ADHESIVES BAT	9021216 (x1)	bat	
SET OF 2 WEDGES BATTER	Y STICK (dimension: 23 x 19 mm)	9020637 (x1)	
	BRACKET WITH ELASTIC TO FIX NAKED BATTERY	9020630 (x40) 9020629 (x200)	



SOLAR PANELS



- Solar panel in resin with fixing holes
- Aesthetic design
- <u>2 possible fixing:</u>
 - 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

REFERENCES

	resin panel photovoltaics monocristalin	DESCRIPTION	REFERENCE x 1	REFERENCE x 20	REFERENCE x 20
	•				
PROTECTION INDEX	IP X4	Solar panel with holes	9019032	9019031	9018382
DELIVERED VOLTAGE	195.8 mA maxi.	Solar panel with adhesive	9020627	9020626	-
POWER	3.2 W				
TYPE OF CABLE	Cable of 200mm with 2-point connector				
	type Molex plug (male) and rubber cable-gla	and for			
	impermeability				
DIMENSIONS	470 x 60 x 6 mm				
WEIGHT	230 g				

KIT REFERENCES

PRODUCT	DESCRIPTION	REFERENCE x 1
Solar panel with fixing holes (9019032) + battery with cable of 30cm (9020634)	SOLAR KIT EXTERIOR CO.3M/1	9021214
Solar panel with fixing holes (9019032) + battery with cable of 60cm (9020635)	SOLAR KIT EXTERIOR CO.6M/1	9021215

SOLAR PANEL ACCESSORIES REFERENCES

US

PRODUCT	DESCRIPTION	REFERENCE x 1
	Solar panel bracket	9019683
and the second s	Extension cable for solar panel (5m)	9019722

BATTERY CHARGER

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

TECHNICAL CHARACTERISTICS



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

REFERENCES



OPERATING PRINCIPLE

AUTOSUN is a complete system made up of a solar panel, a battery and a DC radio motor with electronic end-limits.

THE SOLAR PANEL Converts solar energy into electrical energy.

2 THE BATTERY Stores the energy given by the solar panel.

3 THE MOTOR **...** Uses the energy of the battery to operate the roller shutter.

> **AUTOSUN[®] SOLAR SOLUTION,** 100% AUTONOMOUS, WITHOUT WORK

Efficient solution

- Compatible for RENOVATION or NEW installation.
- Powerful Battery: autonomy of 45 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.

Easy integration

· 3 different solutions: to suit all integration:

An assembly

outside the roller

shutter box

Naked battery with specific brackets fixed by pop rivets inside the Roller Shutter box
Battery in an alu cover. screwed, popped or stuck outside along the guide rail or on the wall
Solar panel fixed by pop rivets or adhesives on the roller shutter box or deported on the wall
Connection of the system (motor, solar panel & battery) by connectors with poka yoke.

W CONNECTOR

Aesthetic solar panel

 Discreet integration on the roller shutter box or on the wall.

An assembly

inside the roller

shutter box

 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.



PRODUCT	DESCRIPTION	REFERENCE x 1
T3.5EHz DC 3/23 motor + battery with cable of 60cm + solar panel	T3.5EHZ 3/23 12V + SOL KIT EXT	2009398
T3.5EHz DC 6/18 motor + battery with cable of 60cm + solar panel	T3.5EHZ 6/18 12V + SOL KIT EXT	2009399
T3.5EHz DC 10/12 motor + battery with cable of 60cm + solar panel	T3.5EHZ 10/12 12V + SOL KIT EXT	2009400

AFTER SALES CABLE REFERENCES

PRODUCT	DESCRIPTION	REFERENCE x 1
10 m	MOTOR cable: enable to keep the battery and the solar panel AUTOSUN 1 with one motor AUTOSUN 2	9020481
	BATTERY cable : enable to keep the motor and the solar panel AUTOSUN 1 with one battery AUTOSUN 2	9020639

