





## 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: 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.
- $\bullet$  Compatible with sequential & functional transmitters.

### **New DESIGN QUARTER ROUND:**

to reduce needed space behind the guide rail or inside the roller shutter box.



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

## **MOTORT3.5 E HZ DC**





- 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.

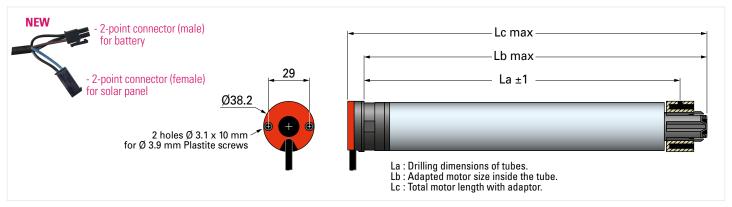
- Soft start function: at DOWN end limit.
- Soft stop function: at UP & DOWN end limit.
- Compatible with all SIMU-Hz transmitters and automatic devices, including Hz sequential transmitter and Hz SUN sensor.
- Adjustment of the end limit with reduced speed in manual mode to ease the setting.
- Motor 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	x1	REFEREN x10	CE 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





**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 mm<sup>2</sup> 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



## **BATTERIES**

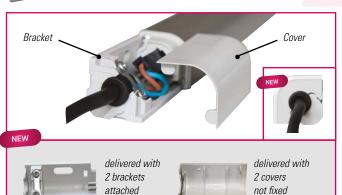


#### 2 different cable lengths



#### 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.



to the battery

• 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.



**REFERENCES** 

DESCRIPTION

**Naked battery** 

Battery stick + cable 30cm

Battery stick + cable 60cm

9020808

9020634

9020635

9020628



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

#### 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

on the battery

## DATTEDY ACCESSORIES DEFEDENCES

	BRACKET WITH ELASTIC TO FIX NAKED BATTERY	<b>9020630</b> (x40)	<b>9020629</b> (x200)		
SET OF 2 WEDGES BATTERY	<b>9020637</b> (x1)				
SET OF 20 ADHESIVES BATT	<b>9021216</b> (x1)				
BATTERY ACCESSORIES REFERENCES					

# 2 BLOCKS To guarantee an alignment of the battery stick on masonry if necessary. 23 x 19 mm

9021212

9021213

## **SOLAR PANELS**





- Solar panel in resin with fixing holes
- · Aesthetic design
- 2 possible fixing:

**REFERENCES** 

DESCRIPTION

Solar panel with holes

Solar panel with adhesive

- 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



REFERENCE

9019032

9020627

REFERENCE x 40

9018382

REFERENCE

9019031

9020626

#### **TECHNICAL CHARACTERISTICS**

**MATERIAL** resin panel

TYPE OF PANEL photovoltaics monocristalin

**PROTECTION INDEX** IP X4

**DELIVERED VOLTAGE** 195.8 mA maxi.

**POWER** 3.2 W

TYPE OF CABLE Cable of 700mm with 2-point connector

type Molex plug (male) and rubber cable-gland 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

PRODUCT	DESCRIPTION	REFERENCE x 1
<b>39</b> . <b>11</b> . <b>:</b>	Solar panel bracket	9019683
	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

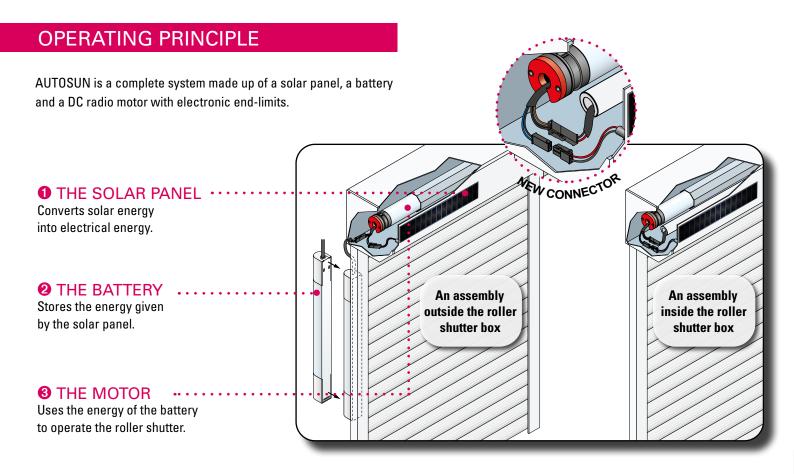
**INPUT VOLTAGE** 100-240VCA ±10%, 50/60Hz

**BATTERY** Ni-MH

**CONNECTORS** 2-point connector Molex (Male) type

REFERENCES

DESCRIPTION	REFERENCE x 1
Battery charger	9020638



# **AUTOSUN<sup>®</sup> SOLAR SOLUTION,**100% AUTONOMOUS, WITHOUT WORK

## **Efficient** solution

· Intermediary position.

- 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.

## Easy integration

- · 3 different solutions: to suit all integration:
- 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.

#### **Aesthetic** solar panel A well-equipped roller shutter · Discreet integration on the roller shutter box or · Roller shutter powered by solar energy. on the wall. Possibility to deport · Radio motor (no wiring). · Radio SIMU Hz technology, well the solar panel with an known on the market. extension cable. · Stop on obstacle. · Frost detection. • Compatible with Liveln connected solution and all sequential and functional transmitters.

## 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
-	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













