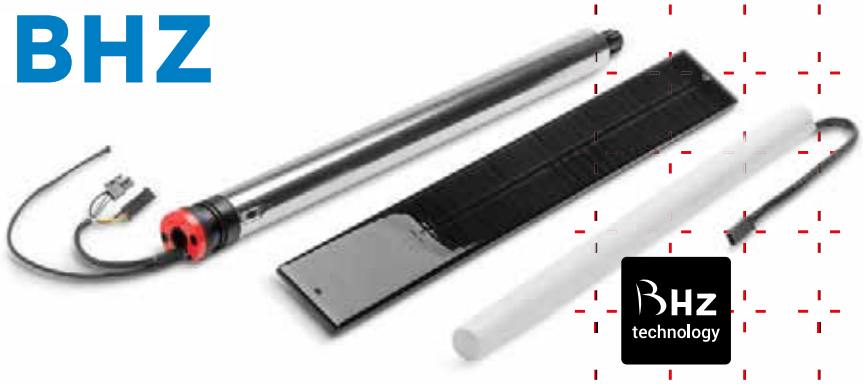


ROLLER SHUTTER

Solar motorization
AUTOSUN 2 BHZ

Motor
Solar panel
Battery



SIMU has been a recognised specialist in solar solutions for roller shutters since 2006. All our solar motors are made in France and comply with the Act For Green eco-design requirements.
Autosun is the SIMU solar solution to motorise your roller shutter with a complete system including a motor, a battery, a solar panel and of complete choice of accessories.

simu

Zoom
on the solar system

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.
- **BHZ protocol:** thanks to the box and the TaHoma application, the motor sends information on its position to your smartphone.
- **No wiring:** AUTOSUN 2 BHZ does not need to be connected neither to the electrical network nor to control points (SIMU-BHz radio technology), which means no degradation of interior walls.
- **Optimized outputs:** AUTOSUN 2 BHZ has been designed to run in most geographical area.
- **Autonomy of the system:** 45 days without sun, 2 cycles per day.
- **Battery stick in alu cover:** for IP44 protection which makes it more resistant to shocks and liquid penetration.

An innovative solution that adapts to all types of roller shutters whatever your installation (renovation or new, roof or facade shutter).



Renovation | Traditional | Tunnel | CWS



SOLAR KIT WARRANTY 7 YEARS Motor - Battery - Panel

Guarantee of the reduced environmental footprint of the product throughout its life cycle, from the extraction of raw materials to the end of the product's life.

Motor + Solar panel + Battery



T3.5 EBHZ DC motor:
Torques: 3, 6 or 10 Nm

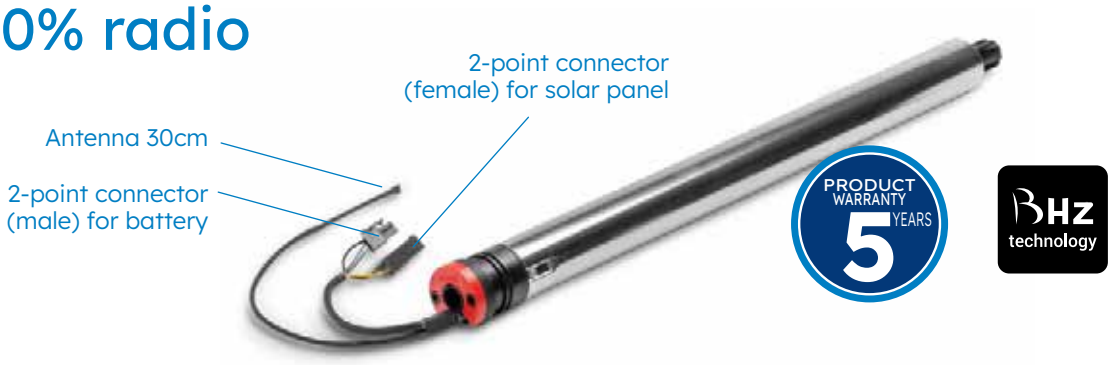


Solar panel:
with adhesives
or with holes



Battery:
Naked battery
or battery stick in alu cover

T3.5 EBHZ DC motorization
100% radio



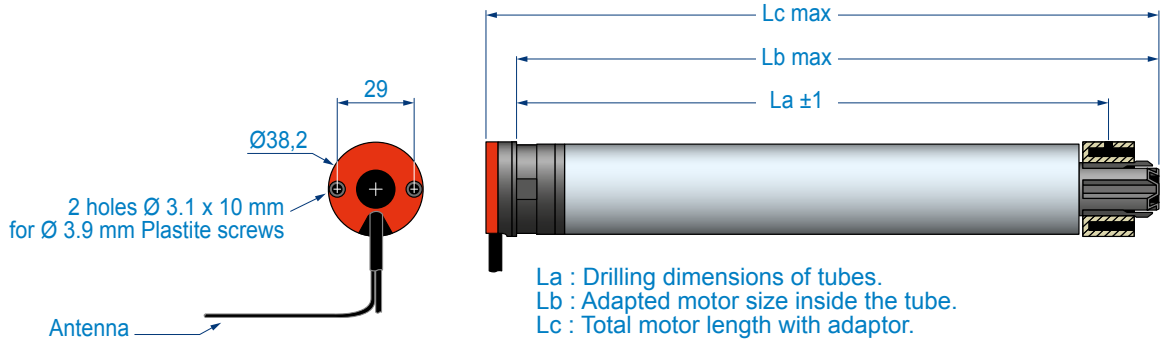
- **BHZ radio technology** (868-870 MHz)
- **4 end-limit settings:** full automatic, manual, semi-automatic UP and semi-automatic DOWN.
- **Adjustment of the end limit with reduced speed** in manual end-limit adjustment to ease the setting.
- **Motor cable:** with a 20 cm black PVC cable, with 2 connectors 2 points and with mistakeproofing and a 30 cm antenna. Reduced size of the connectors to ease the integration inside the side frame.
- **Functions:**
  - Stop on obstacle: the motor will stop during the closing if it meets an obstacle.
  - Frost detection: 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 & Soft stop: the motor will start in reduced speed during the opening and will stop in reduced speed during the opening and closing of the roller shutter.
- **Compatible with all SIMU-BHz transmitters and automatic devices, such as TaHoma box.**

References

12 VDC POWER SUPPLY

DESCRIPTION	TORQUE	SPEED	SPEED	CURRENT	DIMENSIONS (mm)			WEIGHT	REFERENCES		
					La	Lb	Lc		x 1	x 10	x 100
T3.5 EBHZ DC - 3/23	3 Nm	23 rpm	17 W	1.4 A	437	459	474	0,77 kg	2009551	2009554	2009557
T3.5 EBHZ DC - 6/18	6 Nm	18 rpm	26 W	2.2 A	437	459	474	0,8 kg	2009552	2009555	2009558
T3.5 EBHZ DC - 10/12	10 Nm	12 rpm	30 W	2.4 A	437	459	474	0,8 kg	2009553	2009556	2009559

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 mm² wires, Ø5mm PVC black with two connectors.
SIMU-HZ RADIO FREQUENCY	Tri-band radio frequency 868-870 MHz with possibility to edit 8 times the order.
SECURE COMMUNICATION	Encrypted control orders + Rolling code with 16 million possible combinations.
RANGE	BHZ wall transmitter: ~150m in free field and ~15m through 2 reinforced concrete walls. Box TaHoma + BHZ mobile remote control: ~200m in free field and ~20m through 2 reinforced concrete walls.
MOTOR HEAD THICKNESS	15 mm.
END-LIMIT ADJUSTMENT	Every 60 cycles during 4 cycles.
STANDARDS	CE NF

Battery
naked or stick in alu cover

PRODUCT WARRANTY 5 YEARS

NAKED BATTERY



BATTERY STICK IN ALU COVER



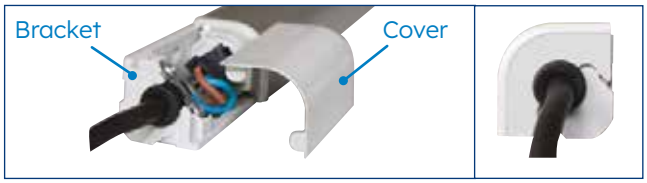
Wide range of batteries to suit at best all installation:
- 1 battery stick in alu cover and its cable of 30cm.
- 1 battery stick in alu cover and its cable of 60cm.
- 1 naked battery, without alu cover and its cable of 25cm. Mounting by pop rivet of the specific brackets and elastics to guarantee the fixing inside the roller shutter box.
- Reduced size of the connector to ease the integration inside the side frame.
- Battery in 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.



Extension cable with connectors for a quick disconnect



Fixing on the support to hold the cable in place



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 in alu cover and its cable of 30cm. - Battery in 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 in alu cover and its cable of 30cm (Fixing with adhesive or brackets). - Naked battery and its cable of 25cm (Fixing with specific brackets & elastics). **Only for RENOVATION roller shutter boxes.**

Technical characteristics

BATTERY	Ni-MH
NOMINAL VOLTAGE	12 Volts
CAPACITY	2.2 Ah
AMBIENT TEMPERATURE OF USE	from -20°C to +70°C
PROTECTION INDEX	IP X4
LIFETIME	± 8 years
WEIGHT & DIMENSIONS	Naked battery: 430 x 23.5mm - 520 gr Battery stick in alu cover: 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

DESCRIPTION	REFERENCES x 1	x 10	x 20
NAKED BATTERY	**9020808**	-	**9020628**
BATTERY STICK CABLE 30CM	**9020634**	**9021212**	-
BATTERY STICK CABLE 60CM	**9020635**	**9021213**	-

Blocks



DESCRIPTION	REFERENCES x 1
SOLAR KIT EXTERIOR C0.3M: Battery with cable of 30cm **(9020634)** + Solar panel with fixing holes **(9019032)**	**9021214**
SOLAR KIT EXTERIOR C0.6M: Battery with cable of 60cm **(9020635)** + Solar panel with fixing holes **(9019032)**	**9021215**

Bracket to fix naked battery with elastic



DESCRIPTION	REFERENCES x 1	x 40	x 200
SET OF 20 ADHESIVES BATT STICK (lenght x width = 550 x 15 mm)	**9021216**	-	-
SET OF 2 WEDGES BATTERY STICK (dimension: 23 x 19 mm)	**9020637**	-	-
BRACKET WITH ELASTIC TO FIX NAKED BATTERY	-	**9020630**	**9020629**

Solar panel
with holes or adhesives

PRODUCT WARRANTY 5 YEARS





- New solar panel with adhesives to stick it directly on the roller shutter box without making holes.

- Solar panel in resin.
- Aesthetic design.
- 2 possible fixing:
  • Directly on the roller shutter box by pop rivets or with adhesive.
  • On the inclined brackets, on the roller shutter box or on the wall to capture more sun.
- All solar panels have a cable length of 20cm.

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 200mm with 2-point connector - type Molex plug (male) and rubber cable-gland for impermeability.
DIMENSION	470 x 60 x 6 mm
WEIGHT	230 g

References

DESCRIPTION	REFERENCES		
	x 1	x 10	x 20
SOLAR PANEL WITH HOLES	**9019032**	-	**9019031**
SOLAR PANEL WITH ADHESIVE	**9020627**	**9020626**	-

DESCRIPTION	REFERENCES x 1
SOLAR KIT EXTERIOR C0.3M: Solar panel with fixing holes **(9019032)** + battery with cable of 30cm **(9020634)**	**9021214**
SOLAR KIT EXTERIOR C0.6M: Solar panel with fixing holes **(9019032)** + battery with cable of 60cm **(9020635)**	**9021215**

DESCRIPTION	REFERENCES x 1
SOLAR PANEL BRACKET	**9019683**
EXTENSION CABLE FOR SOLAR PANEL (5M)	**9019722**
EXTENSION CABLE FOR SOLAR PANEL (1M)	**9028176**



Solar panel bracket



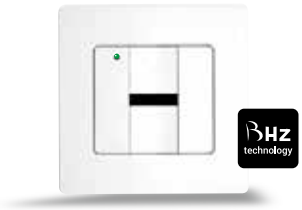
Extension cable

Compatibilities
controls & automatic devices

TO PILOT A ROLLER SHUTTER DIRECTLY



BHZ radio
remote control
1 channel



BHZ radio
wall transmitter
1 channel

TO PROGRAM, AUTOMATE AND CENTRALIZE THE SHUTTERS



BHZ radio
remote control
5 channels

Compatibility

100% CONNECTED OFFER

connects with Somfy TaHoma

Make your life easy with TaHoma® switch!
With TaHoma®, you can control and connect your home equipment to all SIMU solutions (gate door opener, garage doors...) and enrich your customer connected experience!

...WITH TAHOMA® SWITCH



By connecting your roller shutter, enrich your home experience. TaHoma® switch centralize and connect all your roller shutters in the house.

...THE BHZ TRANSMITTER RANGE

1 or 5 channel transmitter **without** feedback.



References for installers

Références

Le Kit composé d'un moteur, d'un panneau et d'une batterie avec coque (câble de 60 cm), est livré dans un emballage unitaire, idéal pour l'installateur ou pour une rénovation.

DESCRIPTION	REFERENCES x 1
T3.5 EBHZ 3/23 12V + KIT SOL EXT: T3.5 EBHz DC 3/23 motor + battery with cable of 60 cm + solar panel	**2009560**
T3.5 EBHZ 6/18 12V + KIT SOL EXT: T3.5 EBHz DC 6/18 motor + battery with cable of 60 cm + solar panel	**2009561**
T3.5 EBHZ 10/12 12V + KIT SOL EXT: T3.5 EBHz DC 10/12 motor + battery with cable of 60 cm + solar panel	**2009562**

SOLAR KIT WARRANTY 7 YEARS Motor - Battery - Panel

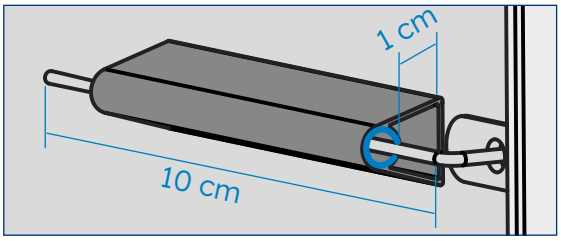
Accessory bracket for antenna

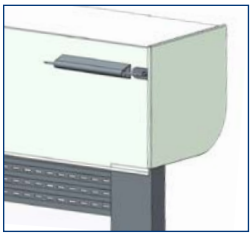


To guarantee radio performances, it is mandatory to place the antenna outside the roller shutter box. This bracket enables to place 10cm of the antenna cable outside the roller shutterbox and 1cm away from a metallic part.

References

DESCRIPTION	REFERENCES x 1	x 100
ANTENNA BRACKET	**9027175**	**9027174**







Accessory Battery charger



NEW

A single charger for all NimH batteries for roller shutters and screen solar offers.



Delivered with 2 cable extension to guarantee the compatibility with all solar offers.



International outputs to guarantee compatibility in different countries.

Technical characteristics

CLASS INSULATION	II
PROTECTION INDEX	IP30
MINIMUM VOLTAGE	8.4 V
MAXIMUM VOLTAGE	16.8 V
CABLE	1.80 m
DIMENSIONS	L 109 x l 49 x H 29 mm

References

DESCRIPTION	REFERENCES x 1
NIMH BATTERY CHARGER	**9028028**

DESCRIPTION	REFERENCES x 1
ADAPT TYPE A CHARGER/1	**9028029**
ADAPT TYPE G CHARGER/1	**9028030**
ADAPT TYPE I CHARGER/1	**9028031**



www.autosun.eu

simu
Zone industrielle les Giranaux
70100 Arc-lès-Gray - France
T. +33 (0)3 84 64 75 00
@ service@simu.com

www.simu.com

Photo credit: SIMU – Realization SIMU - 06/25 - SIMU SAS, capital 5 000 000 euros, RCS Vesoul 425 650 090.
This document is not legally binding. We reserve ourselves the right to make any useful modification in order to constantly develop and improve our tender. SIMU shall not be held responsible for misuse by non-professionals.