

ROLLER SHUTTER

Solar motorization **AUTOSUN 2 BHZ**

Motor Solar panel Battery



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.



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).









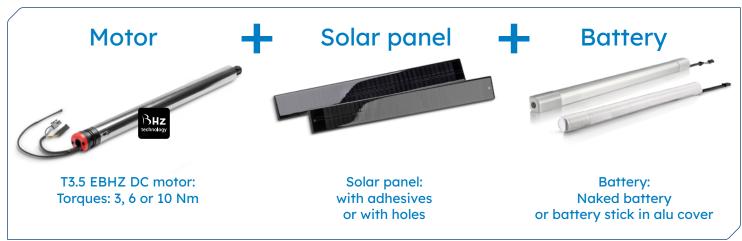
Renovation

Traditional

Tunnel

CWS





T3.5 EBHZ DC motorization



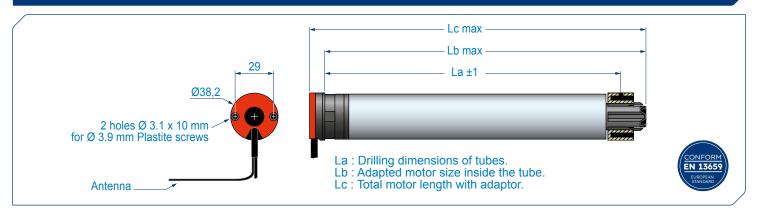
- **BHZ radio technology** (868-870 MHz)
- 4 end-limit settings: full automatic, manual, semi-automatic UP and semi-automatic DOWN.
- Adjustment of the end limit with reduced speed in manual end-limit adjustment to ease the setting.
- **Motor cable:** with a 20 cm black PVC cable, with 2 connectors 2 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.
- <u>Frost detection</u>: 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.
- <u>Intermediary position:</u> which can be adjusted to the user's need. Push "STOP" button of the transmitter to move the roller shutter to the favorite position.
- <u>Soft start & Soft stop:</u> 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	DIM	ENSIONS (mm)	WEIGHT	REFERENCES		
DESCRIPTION	TORQUE	SFLLD	SFLLD	CORREIVI	La	Lb	Lc	WLIGHT	x 1	× 10	× 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

 ${\tt POWER\ CABLE} \quad {\tt Long.\ 0.2\ meters,\ 3x0.75\ mm^2\ wires,\ \emptyset5mm\ PVC\ black\ with\ two\ connectors.}$

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

END-LIMIT ADJUSTMENT Every 60 cycles during 4 cycles.

STANDARDS



Battery naked or stick in alu cover

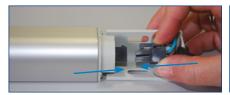






Wide range of batteries to suit at best all installation:

- 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

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

References

DESCRIPTION	REFERENCES			
DESCRIPTION	x 1	× 10	x 20	
NAKED BATTERY	2020808	-	9020628	
BATTERY STICK CABLE 30CM	9020634	9021212	-	
BATTERY STICK CABLE 60CM	9020635	9021213	-	



DESCRIPTION	REFERENCES × 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

DESCRIPTION		REFERENCES		
		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









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

	DESCRIPTION	
	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 × 1
SOLAR PANEL BRACKET	9019683
EXTENSION CABLE FOR SOLAR PANEL (5M)	9019722
EXTENSION CABLE FOR SOLAR PANEL (1M)	9028176





Compatibilities controls & automatic devices

TO PILOT A ROLLER SHUTTER DIRECTLY



TO PROGRAM, AUTOMATE AND CENTRALIZE THE SHUTTERS



Compatibility

100% CONNECTED OFFER



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!





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 × 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





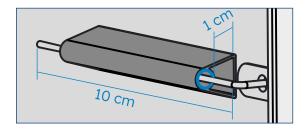
Accessory bracket for antenna



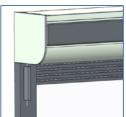
To guarantee radio performances, it is mandatory to place the antenna outside the roller shutter box. This bracket enables to place 10cm of the antenna cable outside the roller shutterbox and 1cm away from a metallic part.

References

DESCRIPTION	REFERENCES		
DESCRIPTION	× 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

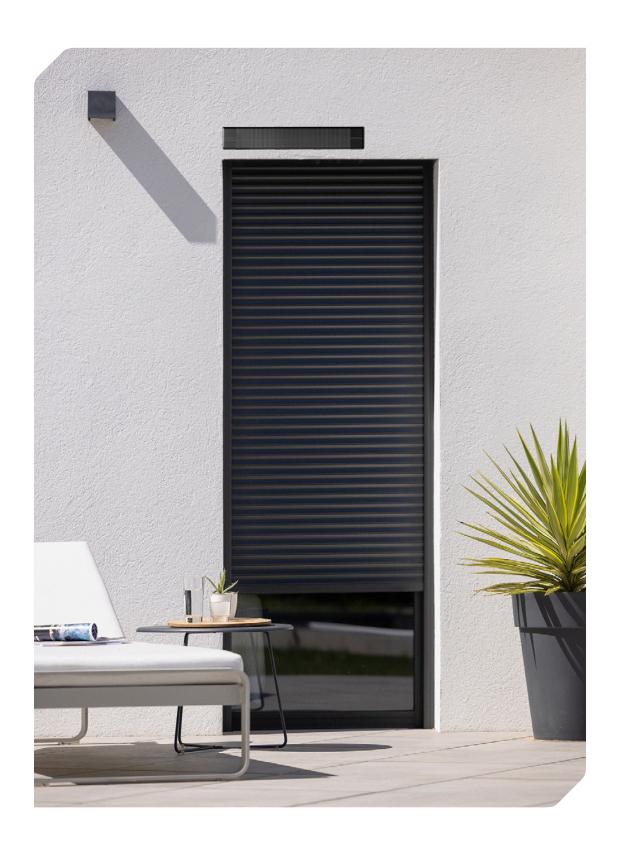
CLASS INSULATION II
PROTECTION INDEX IP30
MINIMUM VOLTAGE 8.4 V
MAXIMUM VOLTAGE 16.8 V
CABLE 1.80 m

DIMENSIONS L 109 x I 49 x H 29 mm

References

DESCRIPTION	REFERENCES × 1
NIMH BATTERY CHARGER	9028028

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



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