

ROLSOLAR-868 DC



Autonomous drive systems for roller shutter motorisation

The drive system is powered by solar energy and thus represents a particularly sustainable solution for the automation of privacy and sun protection. RolSolar is ideal for the motorisation of roller shutters and interior blinds without an electrical connection: Garden houses and garages in peripheral locations benefit from the innovative drive as well as architects and installers who want to offer their customers an ecological as well as efficient type of automated roller shutter. The control with radio transmitters or – thanks to Centro Home – via smartphone and tablet makes the innovative system convenient and user-friendly.



Product features

- Available as M10-868 and M20-868 (with and without /D+)
- Autonomous drive system
- 12 V power supply from battery pack
- True bidirectional ¹ radio with 868 MHz
- Noiseless soft brake
- Blind protection function
- Electronic limit stop
- Blind length compensation for the /D+ variant
- 2 intermediate positions, freely definable
- Future-proof – the drive system can also be retrofitted with an additional charger/battery/solar panel if required

Advantages for installation and assembly

- End positions can be adjusted using the radio transmitter
- No wiring to the mains or a control unit necessary
- The RolSolar, battery pack and solar panel are simply plug & play connected
- Affixing the solar panel by gluing or screwing
- Battery pack available in two designs – for every application

¹ No routing – limited to physical radio range



For every situation, the right

PRODUCT BUNDLE

We have grouped the modules for a solar motorisation solution into bundles.

You can choose between different types of drives as well as solar panels and batteries in different designs.

This way, you acquire a solution that is tailored to the conditions on site. You will find the bundle overview in the brochure attachment.



RolSolar

M10-868 DC, M20-868 DC¹ | /D+ M10-868 DC, /D+ M20-868 DC¹

RolSolar radio drives, 12 V

The drives are equipped with intelligent force measurement, a blind protection function in the up and down direction as well as a silent soft brake. The plug & play variant /D+ makes installation even easier with self-learning end positions.



**Solar panel
with 2 mounting holes**
13 124.7001



**Solar panel
with adhesive strip**
13 125.1901

Solar panel

High-quality, durable solar panels for screwing or gluing. The installation is carried out near the drive or on the roller shutter box. Position the panel so that it receives as much direct sunlight as possible.



**Battery, short,
with retaining clips**
13 710.4802 & 16 307.1001 (2x)



Battery, long
13 710.3802

Battery

Powerful NiMH batteries ensure the longevity of the battery packs. They are positioned close to the drive and are ideally suited for mounting in the box.



Connection cable, 0.27 m
23 395.6301

Connection cable

A connection cable is included in each bundle. It creates the connection from the drive to the battery pack and solar panel.

Via radio transmitter and integrated into the smart home: **CLEVER CONTROL**

The power-saving ProLine2-DC radio provides a minimum standby consumption for the RolSolar drive series and thus extends the operating time. In addition to the respective bundle, you select at least one of the following bidirectional radio transmitters: This will make the solar drive system easy to operate. The specialist company also uses the transmitter to set the end positions.

Only these radio transmitters are compatible with RolSolar. (article numbers with index 2)



MonoTec-868
1-channel wall transmitter
28 650.0002



QuinTec-868
5-channel wall transmitter
28 655.0002

Radio-controlled wall transmitter

Independent of the power supply, the wall transmitter is simply attached to the required location. This is how you can move the motorised roller shutter very easily. It is also possible to control two intermediate positions by double-clicking on the up and down keys.



MonoCom¹
1-channel hand-held transmitter
28 405.0002



VarioCom¹
6-channel hand-held transmitter
28 445.0002

Radio hand-held transmitter

COM hand-held transmitters impress with their modern design and their ergonomic, user-friendly construction. Like the wall-mounted radio transmitters, they are suitable for operating one or more roller shutters and are equipped with the same functions.


















Centero Home
Smart home automation



Smart control

The radio drives of the RolSolar series can of course also be integrated into the versatile Centero Home automation series from elero. You can control your privacy and sun protection in a user-friendly and intuitive manner via a smartphone or tablet.

RolSolar bundle + accessories

			Bundles			
 elero head	 star head	 round head	-01	-02	-03	-04
34 220.0001	RolSolar M10-868 DC 12 V DC, 10 Nm, 16 rpm					
39 220.0001	RolSolar M10-868 SH DC 12 V DC, 10 Nm, 16 rpm					
38 220.0001	RolSolar M10-868 RH DC 12 V DC, 10 Nm, 16 rpm					
34 230.0001	RolSolar M20-868 DC ¹ 12 V DC, 20 Nm, 16 rpm					
39 230.0001	RolSolar M20-868 SH DC ¹ 12 V DC, 20 Nm, 16 rpm					
38 230.0001	RolSolar M20-868 RH DC ¹ 12 V DC, 20 Nm, 16 rpm					
34 320.0001	RolSolar/D+ M10-868 DC 12 V DC, 10 Nm, 16 rpm					
39 320.0001	RolSolar/D+ M10-868 SH DC 12 V DC, 10 Nm, 16 rpm					
38 320.0001	RolSolar/D+ M10-868 RH DC 12 V DC, 10 Nm, 16 rpm					
34 330.0001	RolSolar/D+ M20-868 DC ¹ 12 V DC, 20 Nm, 16 rpm					
39 330.0001	RolSolar/D+ M20-868 SH DC ¹ 12 V DC, 20 Nm, 16 rpm					
38 330.0001	RolSolar/D+ M20-868 RH DC ¹ 12 V DC, 20 Nm, 16 rpm					

Accessories included in the bundle

23 395.6301	Connecting cable 0.27 m	•	•	•	•
13 124.7001	Solar panel with 2 mounting holes	•	•		
13 125.1901	Solar panel with adhesive strip			•	•
13 710.4802	Battery, short, incl. 2 retaining clips (16 307.1001)	•		•	
13 710.3802	Battery, long		•		•

To order a bundle, you need the combination of the drive and bundle number (-01 ... -04).
e.g. 34 220.0001-01 RolSolar M10-868 with elero head, connection cable, solar panel with mounting holes and battery, short.



Required accessories (not included in the bundle)

Please note that for each bundle, you must also select an adapter set, motor bearing and a radio transmitter. Without these components, the RolSolar bundle cannot be installed and operated.

Drive adapter

Individual	Drive adapter
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Motor bearing

Individual	Motor bearing
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Transmitter

28 650.0002	MonoTec-868
28 655.0002	QuinTec-868
28 405.0002	MonoCom ¹
28 445.0002	VarioCom ¹

Only these radio transmitters are compatible with RolSolar. (article numbers with index 2)

¹ Available 3rd quarter 2020

Extension accessories

You can select this accessory optionally; it is not mandatory for the operation of the RolSolar bundle. Each drive system can also be retrofitted with an additional battery and/or solar panel via an adapter Y-cable should the performance of the battery or solar radiation prove insufficient.

Especially for systems that face north and are hardly exposed to sunlight or daylight, it may be advisable to add a second battery and/or a solar panel to the system. A mains unit can also charge the batteries on dark winter days.

Solar panel

13 124.7001	Solar panel with 2 mounting holes
13 125.1901	Solar panel with adhesive strip
13 710.6801	Y-cable type A (required to use the solar panel)

Battery

13 710.4802	Battery, short
16 307.1001	Holding clip for battery, short (13 710.4802), 2 pcs. are required
13 710.3802	Battery, long
13 710.6901	Y-cable type B (required to use the battery)

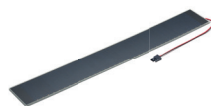
Battery charger

13 710.6701	Battery charger with Molex plug
13 710.6801	Y-cable type A (required to use the battery charger)

Illustrations and dimensions



Solar panel with 2 mounting holes
470×60 mm
Cable: 450 mm
13 124.7001



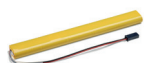
Solar panel with adhesive strip
455×60 mm
Cable: 200 mm
13 125.1901



Y-cable, type A
300/200 mm
13 710.6801



Y-cable, type B
300/200 mm
13 710.6901



Battery, short
250×29.5×15 mm
Cable: 250 mm
13 710.4802



Holding clamp
24.1×28.1×15 mm
16 307.1001



Battery, long
500×ø 16 mm
Cable: 250 mm
13 710.3802



Battery charger
1.80 m
13 710.6701



Connection cable
Cable: 270 mm
23 395.6301

Technical data, M10, M20¹, /D+ M10, /D+ M20¹

	M10-868 DC /D+ M10-868 DC	M20-868 DC ¹ /D+ M20-868 DC ¹
Rated voltage (V)	12 (DC)	12 (DC)
Rated torque (Nm)	10	20
Rated speed (rpm)	16	16
Rated current (A)	4.0	6.0
Rated power consumption (W)	48	72
Radio frequency band (MHz)	868.0 to 868.6 869.4 to 869.65	
Radio transmission power (dBm)	Max. 10	
Shaft diameter	50	
Protection class (IP)	44	
Limit switch range (revolutions)	40	
Operating time (min S2)	10	
Length C (mm)	466	491
Length D (mm)	449	474
Length E (mm) elero head round head star head	14 12 19	
Weight (kg)	1.70	2.20
Ambient operating temperature (°C)	-20 to +60	
Protection class III	III	

¹ Available 3rd quarter 2020

Technical data, DC solar bundle

Dimensions of solar panel with 2 mounting holes (mm)	470 × 60
Dimensions of solar panel with adhesive strip (mm)	455 × 60
Solar panel (peak) power (W)	3.8
Type battery pack	NiMH
Dimensions of battery pack, short, without cable (mm)	250 × 29.5 × 15
Dimensions of battery pack, long, without cable (mm)	500 × 16 × 16
Charging current	230 mA
Discharge current (recommended) (mA)	210 to 4,000 (at 20 °C)
Rated voltage, battery pack (V)	12.0
Capacity, battery pack (Ah)	2.1
Nominal charge (Wh), battery pack	25.8
Ambient operating temperature (°C)	-20 to +60
Protection class (IP code) Battery pack / Solar panel	X4/67
Protection class	III