

Solar motors for fast, easy installation and long-lasting operation.

Solar motors for heroal roller shutter and sun protection systems



heroal

Motors with versatile integration solutions.

heroal offers aluminium system solutions for sustainable residential and commercial buildings with well-engineered system technology, innovative products and industry-leading customisation options.

heroal system solutions are developed and manufactured in Germany. They combine architectural design freedom with security, comfort and maximum energy-efficiency. These systems provide the perfect blend of technical, functional and optical aspects to support reliable planning, efficient implementation and innovative design in construction projects.

Certifications such as Cradle to Cradle Certified®, environmental product declarations (EPDs) as well as the use of Low Carbon Aluminium support the requirements of recognised sustainability standards such as DGNB, LEED and BREEAM.

The heroal roller shutter and sun protection systems let you offer your customers solutions that bring together design, functionality and energy-efficiency. Thanks to the innovative solar motors, the systems can be operated without being connected to the power supply – perfect for fast, easy installation and long-lasting operation.



heroal roller shutters with solar drive

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heroal roller shutter systems with solar drive

Kaiser Nienhaus Easyline Solar



The option of integrating the Kaiser Nienhaus Easyline Solar solar motors enables the extremely energy-efficient operation of heroal roller shutter systems with a solar panel, without a separate power supply. The Kaiser Nienhaus Easyline Solar solar motor is available in the 6 and 20 Nm variants. It can be controlled by a wireless hand-held and wireless wall-mounted transmitter. If there is not enough sunshine, the roller shutter can still run for up to 100 cycles. And, if the lithium-ion battery is ever completely flat, it can be charged with a charging cable. The solar motor is compatible with all popular heroal roller shutter systems and front-mounted elements. Upon request, the roller shutter system can be combined with a solar-based wireless wind/sun sensor so that the roller shutter curtain can be automatically raised and lowered as the weather situation changes. The battery integrated in the motor allows the option of integrating the heroal IS insect screen into the panel box.

Versions and design

- » system compatible with all popular heroal roller shutter systems
- » ideal for heroal front-mounted boxes with 20°, 45° or 90°
- » perfect for retrofits and refurbishments
- » smart home-compatible
- » can be installed on the wall or window
- » optional heroal IS insect screen system available
- » high-quality colour design with heroal hwr powder coating, heroal SD surface designs and Les Couleurs® Le Corbusier® for the aluminium components

System sizes and system features

- » integrated drive as solar-powered roller shutters without a separate power supply
- » Kaiser Nienhaus Easyline Solar motor with 6 (35 mm diameter) and 20 Nm (45 mm diameter)
- » 3,500 wide, 3,500 mm high, max. 8.1 m² area
- » lithium-ion battery
- » curtain can be controlled remotely
- » quick and easy installation in a small, stable box
- » freeze protection and speed regulation
- » roller shutter components available as a system solution or as finished heroal Ready roller shutter*

* The availability of the finished heroal Ready roller shutter can be found in the heroal Ready price list.

heroal roller shutter systems with solar drive

Somfy RS 100 Solar io



The integration of the Somfy RS 100 Solar io solar motors in the 6, 10, 15 and 20 Nm versions allows the energy-efficient operation of heroal roller shutter system. A huge choice of different roller shutter slat systems with view heights between 37 and 52 mm are available for selection. The solar motor can quickly and easily be installed in the heroal panel box. Valuable space can be saved through the combination of solar motors with an external battery and panel caps with offset pins, which make optimum use of the winding space. Retrofitting is also not a problem. The system is controlled wirelessly using either a remote control or a wall button. For maximum flexibility, the solar motors used come with an integrated nickel metal hydride battery. This means that the roller shutter curtain can complete around 100 cycles during periods without adequate sunshine. And, if the battery is ever completely flat, it can be charged with a charging cable. A separate power supply is not required.

Versions and design

- » system compatible with all popular heroal roller shutter systems
- » ideal for heroal front-mounted boxes with 20°, 45° or 90°
- » perfect for retrofits and refurbishments
- » smart home-compatible
- » can be installed on the wall or window
- » high-quality colour design with heroal hwr powder coating, heroal SD surface designs and Les Couleurs® Le Corbusier® for the aluminium components

System sizes and system features

- » integrated drive as solar-powered roller shutters without a separate power supply
- » Somfy RS 100 Solar io motor with 6, 10, 15 and 20 Nm (50 mm diameter)
- » 3,500 wide, 3,500 mm high, max. 8.1 m² area
- » nickel metal hydride battery
- » curtain can be controlled remotely or with a wall-mounted button
- » quick and easy installation in a small, stable box
- » curtain can be controlled remotely or with a wall-mounted button
- » roller shutter components available as a system solution or as finished heroal Ready roller shutter*

* The availability of the finished heroal Ready roller shutter can be found in the heroal Ready price list.

heroal sun protection system with solar drive

heroal VS Z Solar with heroal motor



The heroal VS Z sun protection system with heroal solar motor combines the benefits of an innovative zip-screen system with an integrated solar drive. The integrated solar drive makes the system ideal for retrofitting as well as being easy to use in rental properties and existing properties. The heroal solar motor can be controlled with a radio remote control (433 MHz). Several elements of the heroal VS Z Solar can be combined into groups that can be operated via a hand-held/wall-mounted transmitter. In the heroal VS Z Solar, the heroal solar motors used come with an integrated lithium-ion battery. If there is not a sufficient amount of sunshine, the curtain can still run for up to 100 cycles. Alternatively, the batteries can be charged via an external interface. As the lithium-ion battery is built into the motor, small panel boxes with standard element heights can be used with the heroal VS Z Solar.

Versions and design

- » system compatible with the heroal window systems
- » modern, cubic design with 90° front-mounted panel box
- » perfect for retrofits and refurbishments
- » can be installed on the wall, window or curtain wall
- » high-quality colour design with heroal hwr powder coating, heroal SD surface designs and Les Couleurs® Le Corbusier® for the aluminium components

System sizes and system features

- » integrated drive as solar-powered sun protection with battery buffering
- » heroal motor with 10 Nm (35 mm diameter)
- » 2,000 mm wide, 2,200 mm high, max. 4.4 m² area, with a 54 aluminium axle in the 85 mm panel box
- » 3,000 mm wide, 3,000 mm high, max. 7.5 m² area, with a 63 steel axle in the 95 mm panel box
- » end slat type I, type II or type III
- » heroal GR 37 guide rail
- » lithium-ion battery
- » curtain can be controlled remotely
- » high wind resistance up to 145 km/h
- » available as a system solution, heroal VS Z Solar textile assembly or heroal Ready VS Z Solar finished element

heroal sun protection system with solar drive

heroal VS Z Solar with Somfy Sunea io or Somfy RS 100 Solar io motor



The heroal VS Z sun protection system with Somfy solar drive combines the benefits of an innovative zip-screen system with an integrated solar drive. Choose between the Sunea Solar io and RS 100 Solar io motor*. Installation of the solar motor is quick and easy in the compact, sturdy heroal GR 37 porch unit with a selection of end slats and guide rails. Valuable space savings are achieved through cover caps with offset pins and a newly developed axle to make optimum use of the winding space. The heroal solar drive can be controlled with a wireless remote control (868 MHz). Several elements of the heroal VS Z Solar can be combined into groups that can be operated via a hand-held/wall-mounted transmitter. For maximum flexibility, the Somfy solar motors used in the heroal VS Z Solar come with an external NiMH battery. If there is not a sufficient amount of sunshine, the curtain can still run for up to 100 cycles. Alternatively, the batteries can be charged via an external interface. Retrofitting is also not a problem. The battery is positioned on the inspection panel and can be quickly and easily replaced if needed.

Versions and design

- » system compatible with the heroal window systems
- » modern, cubic design with 90° front-mounted panel box
- » perfect for retrofits and refurbishments
- » smart home-compatible
- » external battery accessible in the inspection panel
- » high-quality colour design with heroal hwr powder coating, heroal SD surface designs and Les Couleurs® Le Corbusier® for the aluminium components

System sizes and system features

- » integrated drive as solar-powered sun protection without a separate power supply
- » Sunea Solar io motor (40 mm diameter) and RS 100 Solar io motor with up to 10 Nm (50 mm diameter)
- » 2,000 mm wide, 2,200 mm high, max. 4.4 m² area, in the 95 mm panel box
- » 3,000 mm wide, 3,000 mm high, max. 7.5 m² area, with the 95 or 105 mm panel box
- » end slat type I, type II or type III
- » heroal GR 37 guide rail
- » nickel metal hydride battery
- » curtain can be controlled remotely
- » Sunea Solar io motor with obstacle detection
- » high wind resistance up to 145 km/h
- » sun protection components available as a system solution or heroal Ready VS Z Solar finished element

* The Somfy RS 100 Solar io cannot be installed in northern regions, e.g. Scandinavia.

heroal VS Z EM sun protection system

Clamp-on sun protection system with solar drive



The heroal VS Z EM (Easy Mount) sun protection system is the clamp-on version of the heroal VS Z textile zip screen system. It can be installed without drilling and can be removed without a trace if needed. The integrated solar-powered drive makes the system ideal for retrofitting and it is also easy to use in heritage listed buildings, rental properties and existing properties. Various clamping support options enable the versatile use of the system in almost all common aluminium, plastic and wood window types. With an integrated solar-powered drive, the heroal VS Z EM does not need a power supply. On days when the sun is not shining, the rechargeable battery can complete around 100 curtain movements. What's more, the motor can be charged by an integrated rechargeable battery through an additional interface. The heroal VS Z EM is controlled at the push of a button with remote control or a button on the wall.

Versions and design

- » system compatible with the heroal window systems
- » modern, cubic design with 90° front-mounted panel box
- » 16 different stainless steel clamping supports for all common aluminium, plastic or wood window systems
- » optional heroal IS insect screen system available
- » high-quality colour design with heroal hwr powder coating, heroal SD surface designs and Les Couleurs® Le Corbusier® for the aluminium components

System sizes and system features

- » operated by a solar motor with battery or a remote wall-mounted/hand-held transmitter
- » heroal motor with 10 Nm (35 mm diameter)
- » max. element sizes: 2,000 mm wide, 2,200 mm high (1,500 mm wide with heroal IS insect screen)
- » max. area: 4.4 m² area
- » heroal FME front-mounted box system: size 85 mm
- » end slat type I
- » guide rail with 41 mm view width without insect screen and 48 mm with insect screen
- » high weather resistance and low-maintenance
- » wind-resistant up to 60 km/h (wind strength 7)
- » installation without holes with stainless steel clamping supports
- » curtain control either wireless via remote control or using a wall button
- » available as a system solution, prefabricated heroal VS Z kit or heroal Ready VS Z EM finished element



Video Highlights

Digital configuration and ordering

with the heroal Business Configurator



The heroal Business configurator in the heroal Communicator lets you quickly and easily configure finished roller shutter and sun protection elements and order systemware and finished roller shutter curtains. Create a customised product configuration and you will quickly receive an offer for yourself as well as an offer that you can forward directly on to your customer. That's how the heroal Business configurator supports an optimised ordering process. Potential errors are avoided and the automated order and offer creation simplifies the processes. Systemware and finished curtains can also be ordered.

System sizes and system features

heroal roller shutter systems with solar drives

Description	heroal roller shutter with Kaiser Nienhaus Easyline Solar	heroal roller shutter with Somfy RS 100 Solar io
Box type	FMR, FME, FMB, FMC	FMR, FME, FMB, FMC
Box shapes	20°, 45°, 90°	20°, 45°, 90°
Box sizes [mm]	125, 137, 150, 165, 180, 205, 230	137, 150, 165, 180, 205, 230
Max. element width [mm]	3,500	3,500
Max. element height [mm]	3,500	3,500
Max. area [m²]	8.1	8.1
Roller shutter slats	All heroal roller shutter slats	All heroal roller shutter slats
Man. end position adjustment	•	•
Auto. end position adjustment	-	•
Obstacle detection	-	•
Freeze protection	•	•
Speed control	•	•
End position with strain-relief function	-	•
Control system	Wireless	Wireless
Drive type	Solar motor	Solar motor
Motor torque [Nm]	6, 20	6, 10, 15, 20
Internal battery	•	-
External battery	-	•
Battery technology	Lithium-ion	Nickel metal hydride
Motor diameter [mm]	35 (at 6 Nm) / 45 (at 20 Nm)	50
Smart Home	•	•
Installation options	Wall, window	Wall, window
heroal IS insect screen system can be integrated	•	-

System sizes and system features

heroal sun protection systems with solar drives

Description	heroal VS Z Solar with heroal motor	heroal VS Z Solar with Somfy Sunea Solar io motor	heroal VS Z Solar with Somfy RS 100 Solar io motor ¹⁾	heroal VS Z EM
Box type	FME	FME	FME	FME
Box shapes	90°	90°	90°	90°
Box sizes [mm]	85, 95	95, 105	95, 105	85
Max. element width [mm]	3,000	3,000	3,000	2,000
Max. element height [mm]	3,000	3,000	3,000	2,200
Max. area [m²]	7.5	7.5	7.5	4.40
Guide rails	heroal GR 37	heroal GR 37	heroal GR 37	heroal GR 41, 48 (with insect screen)
End slats	Type I, II, III	Type I, II, III	Type I, II, III	Type I
Wind-resistant [km/h]	up to 145	up to 145	up to 145	up to 65
Hailstorm class	6	6	6	6
Obstacle detection	-	•	-	-
Curtain control	Wireless	Wireless	Wireless	Wireless
Drive type	Solar motor	Solar motor	Solar motor	Solar motor
Motor torque [Nm]	10	10	10	10
Internal battery	•	-	-	•
External battery	-	•	•	-
Battery technology	Lithium-ion	Nickel metal hydride	Nickel metal hydride	Lithium-ion
Motor diameter [mm]	35	40	50	35
Smart Home	-	•	•	-
Installation options	Wall, window, curtain wall	Wall, window, curtain wall	Wall, window, curtain wall	Clamped in the window frame
heroal IS insect screen system can be integrated	-	-	-	•

* The Somfy RS 100 Solar io cannot be installed in northern regions, e.g. Scandinavia.

heroal



simply better *spaces for life*

As a manufacturer of aluminium system solutions for roller shutters, sun protection, roller doors, windows, doors, sliding doors, curtain walls and patio roofs, heroal is an international market leader, supporting high-quality residential and commercial construction projects worldwide. heroal products are developed and manufactured in Germany and set themselves apart with their premium quality and exceptional performance features. As a result, the innovative system solutions contribute to greater sustainability, security, comfort and architectural freedom for both current and future building projects and impress with simple and efficient planning and fabrication by heroal specialist partners.

Roller shutters | Sun protection | Roller doors

Windows | Doors | Sliding doors | Curtain walls | Patio roofs

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