DRIVEN BY THE SUN

THE SION
Information Sheet
WELCOME TO OUR JOURNEY

What Does the Mobility of the Future Look Like?

And how can it be improved and made more sustainable in the interest of people and the planet? Some years ago, we asked ourselves exactly this question.

Our answer is the Sion – an electric car that charges itself and can be shared with others.

Today, our experienced team of engineers, designers, technicians, and industry experts are developing and building a future-oriented electric car suitable for everyday use with integrated solar cells and innovative mobility services.

Every journey has its beginning. And no journey goes the way you planned it. We are currently on the way to series production of the Sion. This information sheet can therefore only show the current development, planning, and technological status of our vehicle. All information on our products and services is therefore also provisional.

If questions or suggestions arise during your reading, please feel free to contact us at any time. You can find our contact details on the penultimate page.
A WORLD IN WHICH EVERY CAR IS ELECTRIC AND SHARED.
The Sion

Our Mission

The Sion is our very first step into the future of smart, climate-friendly, and sustainable mobility.

We are determined to establish smart e-mobility and sharing on a large scale to make a significantly contribute to cutting back global CO₂ emissions.

In order to protect the environment and the resources of our planet, vehicle production volumes have to be reduced – significantly, permanently, and globally.

Only intelligent, resource-saving and affordable mobility and energy concepts will ensure the implementation of this goal.
THE CAR THAT CHARGES ITSELF

THE SION

AN ELECTRIC VEHICLE THAT CHARGES ITSELF THROUGH THE SUN GENERATING ADDITIONAL RANGE. WITH INTELLIGENT MOBILITY SERVICES, THE SION IS OUR CONTRIBUTION TO A CLIMATE-FRIENDLY FUTURE.
THE SIION
Exterior

MODERN DESIGN MEETS FULL SOLAR INTEGRATION. DESIGNED TO TAKE ADVANTAGE OF EVERY RAY OF SUNLIGHT.
The hood, fenders, sides, roof, and rear of the vehicle carry solar cells that visually blend into the surface.

The Sion thus becomes an SEV, a Solar Electric Vehicle, whose battery can additionally be charged by the power of the sun.
Sono Solar

POWER IS WHERE YOU PARK IT. SONO SOLAR IS A REAL INNOVATION AND IS BASED ON THE IDEA OF ENERGY GENERATED BY THE SUN.

Thanks to solar cells that are seamlessly integrated into the entire bodywork, the Sion can charge its battery from the sun alone.

Thus, under ideal conditions, up to 245 km (112 km on average) additional range per week can be achieved with pure solar energy — CO₂ neutral and completely free of charge. This means full self-sufficiency on short distances.

For solar integration, we use monocrystalline silicon cells that produce energy even under cloudy skies or in the shade.

AT PEAK PERFORMANCE, THE INTEGRATED CELLS CAN GENERATE UP TO 1,2 KILOWATTS.
MUNICH AS AN EXAMPLE

Solar Range of the Sion per week

- **CLOUDY SKY**: Cloudy all day
- **AVERAGE**: Range per week, based on average meteorological data of one month
- **CLEAR SKY**: All day sun

<table>
<thead>
<tr>
<th></th>
<th>Km</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cloudy</strong></td>
<td></td>
<td>28</td>
<td>42</td>
<td>42</td>
<td>56</td>
<td>63</td>
<td>63</td>
<td>71</td>
<td>70</td>
<td>63</td>
<td>49</td>
<td>47</td>
<td>28</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td></td>
<td>210</td>
<td>175</td>
<td>210</td>
<td>245</td>
<td>231</td>
<td>231</td>
<td>196</td>
<td>168</td>
<td>168</td>
<td>91</td>
<td>77</td>
<td>70</td>
</tr>
<tr>
<td><strong>Clear</strong></td>
<td></td>
<td>0</td>
<td>28</td>
<td>126</td>
<td>126</td>
<td>119</td>
<td>154</td>
<td>154</td>
<td>154</td>
<td>154</td>
<td>154</td>
<td>154</td>
<td>154</td>
</tr>
</tbody>
</table>

Note: The table above shows the solar range per week in km for different weather conditions in Munich, based on average meteorological data for different months.
YOU CAN CHARGE THE SION AT NEARLY ANY CHARGING STATION IN EUROPE USING ANY OF THREE DIFFERENT CHARGING METHODS: SCHUKO, TYPE 2, AND CCS.

**THE SION**

**Charging systems**

**EUROPEAN HOUSEHOLD PLUG (SCHUKO)**

With an SchuKo to Type 2 adapter cable, the time taken to fully charge a completely empty battery up to 100% can be up to 13 hours, depending on the capacity of the socket.

**STANDARD CHARGING STATION (TYPE 2)**

This method takes **2.5 hours** to provide **80%** charge and **3.2 hours** for **100%**.

**FAST CHARGING STATION (CCS)**

The Sion can be charged up to **80% in 30 minutes** using CCS. You will have to allow for another **30 minutes for a 100% charge**.

Nevertheless, 80% provides 200 kilometers of range, which is often enough to take you to the next rapid charging station.
The Sion is equipped with a household socket (SchuKo), which can be used for all common electronic devices and can be operated up with up to 3.7 kW. The Sion can deliver even more power when using a Type 2 plug.

You will be able to power other electric cars and high-voltage devices with up to 11 kW. Combined with Sono Solar, the Sion can be your power plant on wheels.
FOCUS ON THE ESSENTIALS: THE CLEARLY STRUCTURED, SUBTLE INTERIOR DESIGN OF THE SION IMPRESSES WITH ITS INTUITIVE USEABILITY.
THE SION

Interior

The infotainment system with connectivity and mobility services integrated ex works can be controlled centrally from the 10-inch touch display.

An additional display in the vehicle's cockpit allows central information, such as the solar range and speed to be accessed quickly.

The innovative design highlight is the integrated Moss. A natural element that ensures a pleasant indoor ambience.

The color lighting of the system can be individually adjusted.
MOBILITY AND ENERGY SERVICES

SONO APP
A NEW APPROACH TO MOBILITY

Sono App

WE OFFER A VARIETY OF SERVICES WITH THE SION, COMBINING INNOVATIVE MOBILITY WITH SUSTAINABILITY.

With your smartphone, you can share your Sion, electricity, or a ride.

The Sono app is also your digital key for the Sion and the window to real-time vehicle data.

The data connections of our vehicle as well as the automatic emergency call service eCall are controlled by the Vehicle Connectivity Module.
MOBILITY AND ENERGY SERVICES

Sono App

**CAR SHARING**
The integrated carsharing function allows you to share your Sion with other people. Everything happens through our app, no key handover necessary. Use the Sono app to manage users, create drop-off areas, and set prices. That way, everyone benefits from your Sion – including the environment and your wallet.

**RIDE POOLING**
With the Sion, you can offer other users a ride. You share your itinerary via the infotainment or the Sono app. We publish the offer on partner sites and notify you as soon as a passenger is found. This way, you meet new people, reduce your costs, and protect the environment.

**POWER SHARING**
The Sono app in combination with our bidirectional charging system allows you to discharge the stored energy of your Sion. You decide how much energy you offer to power electrical devices, your home, or share with other electric cars.

**MY SION**
The Sono app provides you up to date information about your Sion: state of charge, solar charging, and usage statistics. You can also set your desired interior temperature and use the car without a key – all you need is a smartphone.
**THE SION**

**Information**

| **BATTERY** | The lithium-ion battery has a capacity of 35 kWh and features water cooling. The battery capacity is sufficient for a range of up to 255 km under the WLTP standard. Our plan is for you to be able to rent or lease the battery or buy it outright. |
| **MOTOR** | Offering 120 kW (163 h.p.) in connection with a single-speed transmission, the three-phase synchronous motor makes sure you will always enjoy driving the Sion with with a top speed of up to 140 km/h. The powertrain’s maximum operating voltage is 400 volts. The Sion will be equipped with front-wheel drive. |
| **TOW BAR** | With a maximum towing capacity of 750 kilograms unbraked, you can tow smaller trailers without no problem. |
| **SAFETY** | Safety is extremely important to us. That is why the Sion comes equipped with ABS, driver and passenger airbags, and ESP. |
Track width 1,580 mm
Wheel base 2,770 mm
Height 1,670 mm
Length 4,290 mm
Width 2,100 mm
Width 1,830 mm

THE SION

Dimensions

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total length</td>
<td>4290</td>
</tr>
<tr>
<td>Total width</td>
<td>1830</td>
</tr>
<tr>
<td>With exterior mirrors</td>
<td>2100</td>
</tr>
<tr>
<td>Wheel base</td>
<td>2770</td>
</tr>
<tr>
<td>Track width front</td>
<td>1580</td>
</tr>
<tr>
<td>Track width rear</td>
<td>1580</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>165</td>
</tr>
<tr>
<td>Height</td>
<td>1670</td>
</tr>
<tr>
<td>Trunk sill height unladen</td>
<td>780</td>
</tr>
<tr>
<td>Maximum trunk opening width</td>
<td>1100</td>
</tr>
<tr>
<td>Trunk opening height</td>
<td>700</td>
</tr>
<tr>
<td>Maximum loading length</td>
<td>1600</td>
</tr>
<tr>
<td>Loading length behind rear seats</td>
<td>800</td>
</tr>
<tr>
<td>Trunk volume in liters</td>
<td>650</td>
</tr>
<tr>
<td>(non-VDA standard)</td>
<td></td>
</tr>
<tr>
<td>With rear seats folded down</td>
<td>1250</td>
</tr>
</tbody>
</table>
### THE SION

#### Features

##### EXTERIOR

- Tire repair kit (12-volt compressor and tire sealant)
- Exterior mirrors in vehicle color
- LED headlights
- Windshield wipers, intermittent
- Full-surface solar integration to generate additional range
- All-weather tires, tire size: 205/60 R16
- Steel rims/16 inches/anthracite

##### INTERIOR

- ISOFIX child seat mount
- 3-point safety belts
- Electric windows
- Split-folding rear bench seat (60/40)
- Heated seats for driver and passenger
- Cup holder in center console
- 1-zone automatic climate control
- Integrated Infotainment system with ambient lighting

##### SAFETY

- Anti-lock braking system
- ESP with traction control
- Electric power steering
- Driver, passenger, and side airbags
- Front passenger airbags can be deactivated
- Passenger detection
- Rear parking assistance

---

**TWO-YEAR WARRANTY OR 100,000 KILOMETERS (Standard warranty)**
## THE SION Features

### ELECTRONICS
- Charging plug underneath the hood with separate charging lid, automatic adjustment of charging power
- Charging output up to 50 kW DC and up to 11 kW AC
- Central door locking
- Range optimization through brake energy regeneration
- Cruise control
- Configuration includes six loudspeakers (tweeter, woofer and full-range loudspeaker)

### INFOTAINMENTSYSTEM
- Included in price
- 10-inch multi-touch display powered by Android Automotive operating system
- Bluetooth connectivity, FM/DAB Tuner and multimedia applications
- Apple CarPlay and Android Auto Integration
- USB (2x Type C)
- Digital instrument cluster
- Standalone applications for solar integration, vehicle statistics and charge/discharge functions
- Over-the-air software updates

### MOBILE APPLICATIONS
- Sono app with My Sion functions
- Mobility services: Car Sharing, Ride Pooling
- Energy service: Power Sharing

---

TWO-YEAR WARRANTY OR 100,000 KILOMETERS (Standard warranty)
## Technical Details

### STEERING
- Ø turning circle (m): <11 m
- Suspension: MacPherson

### DRIVING PERFORMANCE
- Maximum speed: 140 km/h
- 0–100 km/h: <9 Sek.
- Electricity consumption: ≈ 14 kWh/100 km
- Range (WLTP): 255 km

### CHARGING
- Charge: 50 kW (CCS) + up to 11 kW (Type 2/SchuKo)
- Discharge: 11 kW (Type 2) + 3.7 kW (SchuKo)

### ENGINE
- Front-wheel drive
- Three-phase synchronous motor
- Single-speed
- Operating voltage: 278–400 volts
- Power: max. 120 kW
- Torque: max. 270 Nm
- Recuperation: max. 50 kW
- Battery: 35 kWh

### WEIGHT
- Unladen weight: ≈ 1,400 kg
- Maximum authorised mass: ≈ 1,950 kg
- Cargo: ≈ 465 kg

### TOW BAR
- Nose load: 50 kg
- Max. capacity: max. 750 kg unbraked
Open Service System

Open Service System stands for an intelligently designed maintenance system that keeps costs as low as possible. By publishing a workshop handbook, we have made it possible to establish an extensive network of independent mechanics while keeping costs low for you. You can have maintenance and repairs carried out on your Sion in three different ways:

01 An instructional video and catalog ensure that you can install replacement parts in your car without needing much prior knowledge.

02 If you don’t feel up to it, you can easily bring the Sion into the shop for repairs. We don’t use mechanic certifications or develop proprietary technological standards.

Our manual is publicly viewable and available. As a result, there will be an extensive network of partners who offer you repairs and service at an affordable price.

03 We are planning to cooperate with a well-known European service provider for any repairs involving high-voltage or body parts. Consequently, you can be sure that your Sion will be in good hands and repaired expertly.
THE SION IS PRODUCED IN EUROPE. THIS IS HOW WE KEEP TRANSPORT AND DELIVERY Distances SHORT, AS SUSTAINABILITY AND CLIMATE PROTECTION ARE PARTICULARLY IMPORTANT TO US.
WITH OUR PRODUCTION PARTNER NEVS, WE SHARE THE VISION OF CLIMATE-FRIENDLY AND FORWARD-LOOKING MOBILITY. THAT IS WHY WE AIM TO PRODUCE THE SION USING 100% RENEWABLE ENERGY.

We are trying to fully offset all CO₂ emissions that cannot be avoided or reduced along the supply chain and during production of the Sion. The costs for the CO₂ offset are already included in the vehicle price.

We manufacture the Sion at the former top brand SAAB’s plant in Trollhättan, Sweden.

In 2020 COVID-19 hit the world and caused unprecedented global change. As a result, there were delays and we had to stop series development.

Nevertheless, we were able to successfully complete an essential financing round, so that we can soon continue and resume series development. We are determined to take this important step as soon as possible.
THE SION

GET YOUR SION

RESERVE YOUR SION. FOR YOUR TRIP INTO A SUSTAINABLE FUTURE.
BECOME A SUPPORTER OF OUR VISION!

During the first stage, you can preorder and make a down payment on a Sion. It comes with a two-week reflection period.

In the second stage, Sono Motors will offer you a contract to purchase a Sion. Again, you'll have a two-week reflection period, during which you can cancel the contract.

You have the possibility to pick up your Sion directly at the plant in Trollhättan. Additionally, we are working on an entirely new delivery concept. For an extra charge, it will probably be possible to deliver your Sion to your desired location as well.

RESERVE YOUR SION HERE.
SONO MOTORS GMBH
WALDMEISTERSTRASSE 76
80935 MÜNCHEN | DEUTSCHLAND

T +49 (0)89 45 20 58 18
E INFO@SONOMOTORS.COM
W SONOMOTORS.COM

VAT DE305560734
MUNICH MUNICIPAL COURT | HRB 224131
MANAGEMENT:
LAURIN HAHN AND JONA CHRISTIANS
© Sono Motors 2021

SIGN UP TO OUR NEWSLETTER HERE.