Our Vision

A world in which every car is electric and shared!
Our Mission

We are determined to establish smart e-mobility and sharing on a large scale to make a significant contribution to the cutback of global CO2 emissions. In order to protect the environment and the resources of our planet, vehicle production volumes must be reduced - significantly, permanently and worldwide.

Only intelligent, resource-protective and affordable mobility and energy concepts will ensure the implementation of this goal. The Sion is our very first step into the future of smart, climate-friendly and sustainable mobility.
Dear Readers,

At the moment we are preparing the series production of the Sion. All information regarding the products and services of Sono Motors in this information sheet is hence preliminary. All information about the vehicle is based on the Sion prototype’s current development, planning, and technology at the time of publication of this document. Errors are explicitly reserved. The features of the Sion and/or services that are described here are subject to change as part of the ongoing development of the Sion. Sono Motors does not accept any liability for errors, inaccurate information, and/or completeness.
The Sion
The Sion
Solar Electric Vehicle

The first Solar Electric Vehicle that can charge itself through the sun and thus generate additional range. With intelligent mobility services, the Sion is our contribution to a climate-friendly future.
The Sion

Exterieur

The distinguishing characteristic of the exterior is the full-surface integration of the solar cells, which completely redefines the body. 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. The system is protected by a robust, scratch-resistant polymer.
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 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 HP) in connection with a single-speed transmission, the three-phase synchronous motor makes sure you will always enjoy driving the Sion with up to 140 km/h. The maximum powertrain's operating voltage is 400 volts. The Sion will be equipped with a front-wheel drive.

Tow Bar
With a towing capacity of maximum 750 kg, you can tow small trailers with no problem.

Safety
Safety is extremely important to us. That is why the Sion comes equipped with ABS, driver and passenger airbags and ESP.
The Sion

Dimensions

Total length 4,290
Total width 1,830
With exterior mirrors 2,100
Wheel base 2,770
Track width front 1,580
Track width rear 1,580
Ground clearance 165
Height 1,670
Trunk sill height unladen 780
Maximum trunk opening width 1,100
Trunk opening height 700
Maximum loading length 1,600
Loading length behind rear seats 800
Trunk volume in liters (non VDA standard) 650
With rear seats folded down 1,250

All dimensions in mm
The Sion

Features

### Exterior
- Tire repair kit (12 volt compressor and tire sealant)
- Exterior mirrors same color as body
- LED headlights
- Windshield wipers with intermittent operation
- Full-surface solar integration to generate additional range through the sun
- All-weather tires/tire size (205/60R16)
- Steel wheels/16 inches/anthracite

### Interior
- ISOFIX children’s seat connectors
- Three point seat belt
- Electric windows
- Folding rear seat backs, divided (60/40)
- Front seat heating
- Single zone automatic climate control
- Integrated breSono system with ambient lighting

### Electronics
- Charging plug under hood with separate cover, charging capacity automatically adjusted
- Charging capacity up to 50 kW DC and up to 11kW AC
- Central locking
- Range optimised using brake energy regeneration
- Instrument cluster with econometer, body computer module, external temperature display
- Infotainment system with integrated connectivity, 10 inch display, USB connection and Bluetooth
- USB (2x Type C) and cup holders located in center console
- Cruise control
- Four speakers in the front of the car
- Mobility services/goSono systems: powerSharing, rideSharing, carSharing

### Safety
- Anti-lock braking system
- ESP with traction control
- Electronic power steering
- Driver, passenger and side airbags
- Passenger airbags can be deactivated
- Seat occupant detection
- Rear parking assistance

Two year warranty or 100,000 kilometers (standard warranty).
## The Sion

### Technical Details

<table>
<thead>
<tr>
<th><strong>Steering</strong></th>
<th><strong>Tow Bar</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Turning circle (m)</td>
<td>Nose load</td>
</tr>
<tr>
<td>&lt;11 m</td>
<td>50 kg</td>
</tr>
<tr>
<td><strong>Suspension</strong></td>
<td>Max. capacity</td>
</tr>
<tr>
<td>MacPherson</td>
<td>max. 750 kg</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Driving Performance</strong></th>
<th><strong>Engine</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum speed</td>
<td>Drive configuration</td>
</tr>
<tr>
<td>140 km/h</td>
<td>Front wheel drive</td>
</tr>
<tr>
<td>0–100 km/h</td>
<td>Three-phase synchronous motor</td>
</tr>
<tr>
<td>&lt; 9 seconds</td>
<td>Single-speed</td>
</tr>
<tr>
<td>Electricity consumption</td>
<td>Operating voltage</td>
</tr>
<tr>
<td>≈ 14 kWh/100 km</td>
<td>278–400 volts</td>
</tr>
<tr>
<td>Range(WLTP)</td>
<td>Power</td>
</tr>
<tr>
<td>255 km</td>
<td>max. 120 kW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Weight</strong></th>
<th><strong>Charging</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unladen weight ready to drive</td>
<td>Charge 50 kW (CCS) + up to 11 kW (Type 2)</td>
</tr>
<tr>
<td>approx. 1,400 kg</td>
<td>Discharge</td>
</tr>
<tr>
<td>Maximum authorised mass</td>
<td>11 kW (Type 2) + 3.7 kW (SchuKo)</td>
</tr>
<tr>
<td>approx. 1,950 kg</td>
<td></td>
</tr>
<tr>
<td>Cargo</td>
<td></td>
</tr>
<tr>
<td>approx. 465 kg</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Battery</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>35 kWh</td>
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</tbody>
</table>
The Sion

Charging Systems

You can charge the Sion at nearly any charging station in Europe using any of three different charging methods: SchuKo, Type 2 and CCS.

European Household Plug (SchuKo)
With this plug, the time taken to fully charge a completely empty battery up to 100 percent 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 percent charge and 3.2 hours for 100 percent.

Rapid Charging Station (CCS)
The Sion can be charged up to 80 percent in 30 minutes using CCS. You will have to allow for another 30 minutes for a full 100 percent charge. Nevertheless, 80 percent provides 200 kilometers range, which is often enough to take you to the next rapid charging station.
Focus on the essentials: The clearly structured, understated interior design of the Sion impresses with its intuitive usability. Innovative design highlight is the natural air filter system breSono. The infotainment system with connectivity and mobility services integrated ex works can be controlled centrally via 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 captured quickly.
The Sion

breSono

Breathe! breSono is the natural air filter system of the Sion. Island moss provides a pleasant indoor climate by regulating humidity. Electrostatic attraction also filters up to 20 percent of particulate matter from the air. The colour lighting of the breSono system can be individually adjusted.
The Sion

viSono

Power is where you park it! The viSono system is a real innovation and is based on the idea of energy generated by the sun. With solar cells seamlessly integrated into the entire body, the Sion can easily charge its battery through the sun. Thus, under ideal conditions, up to 34 kilometers of additional range per day 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.

Solar Range of the Sion
Example of Munich

cloudy sky: cloudy all day
average: range per day, based on average meteorological data per month
clear sky: sunny all day
The Sion

biSono

Thanks to the bidirectional charging technology, the Sion can draw and store energy and, moreover, share it too. A regular household plug (SchuKo) can be used to power all common electronic devices 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 viSono, the Sion can be your power plant on wheels.

Charging Capacity in the Series

- 50 kW DC via CCS
- up to 11 kW AC via Type 2 + SchuKo

Discharge Capacity in the Series

- 11 kW AC via Type 2
- 3.7 kW via SchuKo
reSono comes from the word repair and 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:

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

2. 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. Anyone is free to look at our workshop handbook. As a result, there will be an extensive network of partners who offer you repairs and service at an affordable price.

3. 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.

reSono Video
The Sion

Production

The Sion is the first series-produced SEV (Solar Electric Vehicle) whose battery can also be charged by the sun. 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 a climate-friendly and forward-looking mobility. That is why we will produce the Sion using 100 percent renewable energy. All CO2 emissions that cannot be avoided or reduced along the supply chain and during the Sion production will be fully offset by us.

The costs for the CO2 offset are already included in the vehicle price. We will start production in the second half of 2021 and manufacture the Sion at the former cult brand SAAB plant in Trollhättan, Sweden.
The Sion

Reserve Your Sion

Become a supporter of our vision! During the first stage, you can pre-order 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.

1. **Step 1: Preorder**
   The first step is to preorder and make a down payment on a Sion. It comes with a two-week right of cancellation.

2. **Step 2: Purchase Contract**
   In the second step, Sono Motors will offer you a contract to purchase a Sion. Again, you will have a two-week right of cancellation for the contract.

3. **Step 3: Delivery**
   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.

Preorder Your Sion Now

Subscribe to Our Newsletter
Mobility Services
We offer a variety of services with the Sion, combining innovative mobility with sustainability. The goSono app brings together three important aspects of the Sion: powerSharing, rideSharing and carSharing. You can use your phone to provide other people with electricity, a ride or your Sion. The data connections of our vehicle as well as the automatic emergency call service eCall are controlled by the Connectivity Control Unit (CCU) from Bosch.
rideSharing
With the goSono app, you can offer other users a ride. Anyone wanting to use the service will send you a request. They will get a notification if you accept the request and then you can just pick them up. A great way to meet new people, lower your costs, and help the environment – and it is all made easy.

carSharing
The integrated carSharing function enables you to share your Sion with other people. Use the goSono app to decide for how long and with whom you would like to share your Sion. Everyone will be able to benefit from your Sion as a result — including your wallet and, most importantly, the environment.

powerSharing
The goSono app, in combination with our biSono system, makes sharing the energy stored in your Sion easy and straightforward, turning it into an independent source of energy. You simply decide on how much electricity you are willing to share and at which price. Other app users will see your Sion marked on a map as a mobile charging station that they can head to as they wish.
All details provided for Sono Motors’ products are preliminary. Information about the vehicle is based on the Sion prototype’s current planning and technology at the time of publication (of this document). Errors are explicitly reserved. The products described here are subject to change as part of the ongoing development of our products. We do not accept any liability for errors or inaccurate information. © Sono Motors 2019

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