

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 already 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.**

SONO

Our
Vision



THE SION

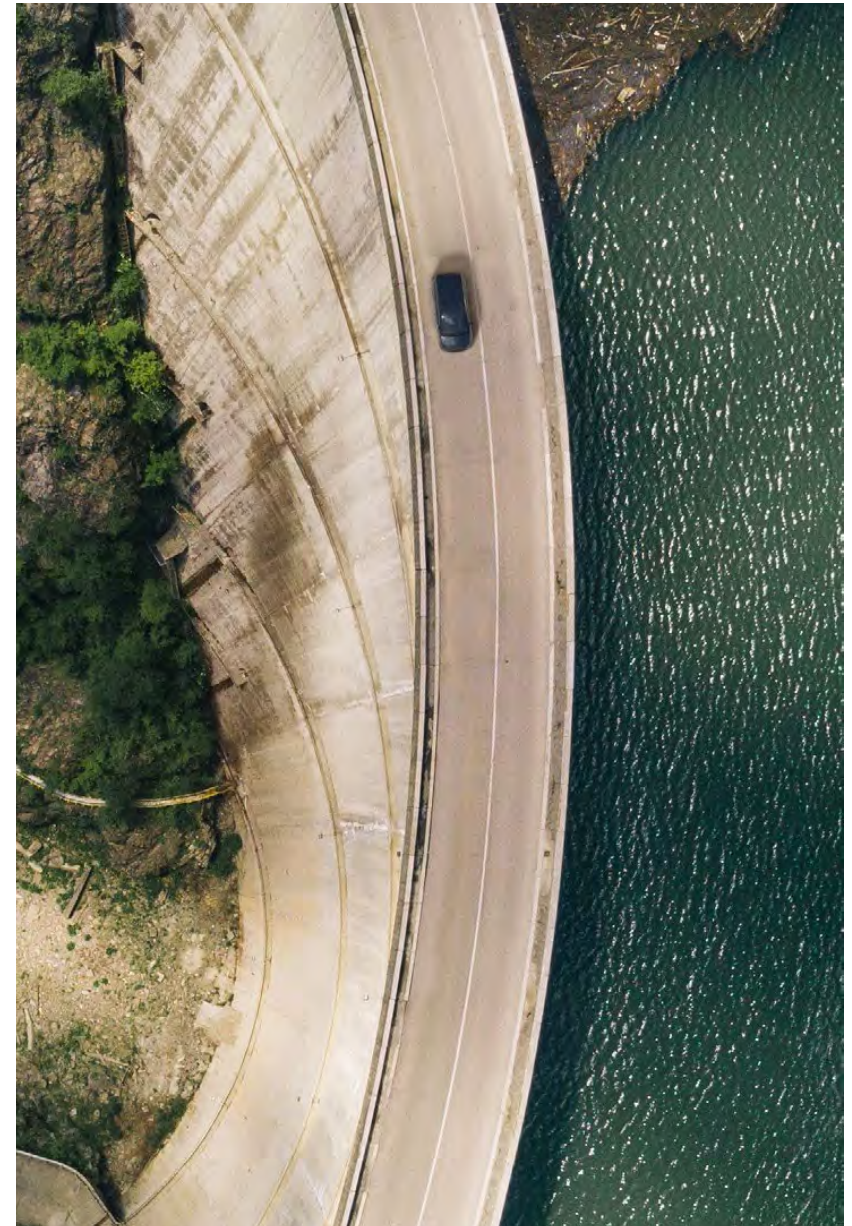
Our Mission

**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 SION

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. The system is protected by a robust, scratch-resistant polymer.

THE SION

Exterior





THE SION

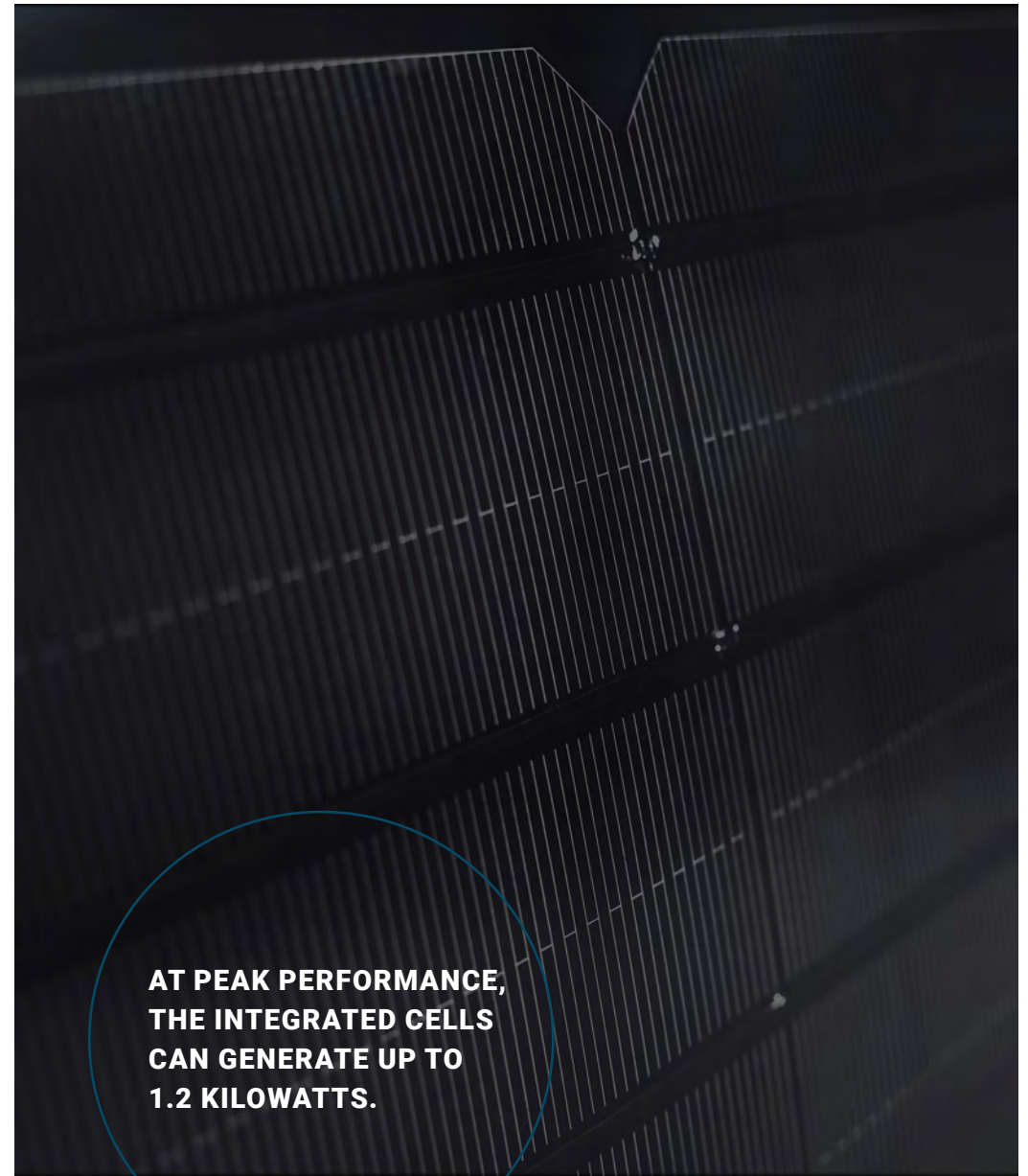
Sono Solar

**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.

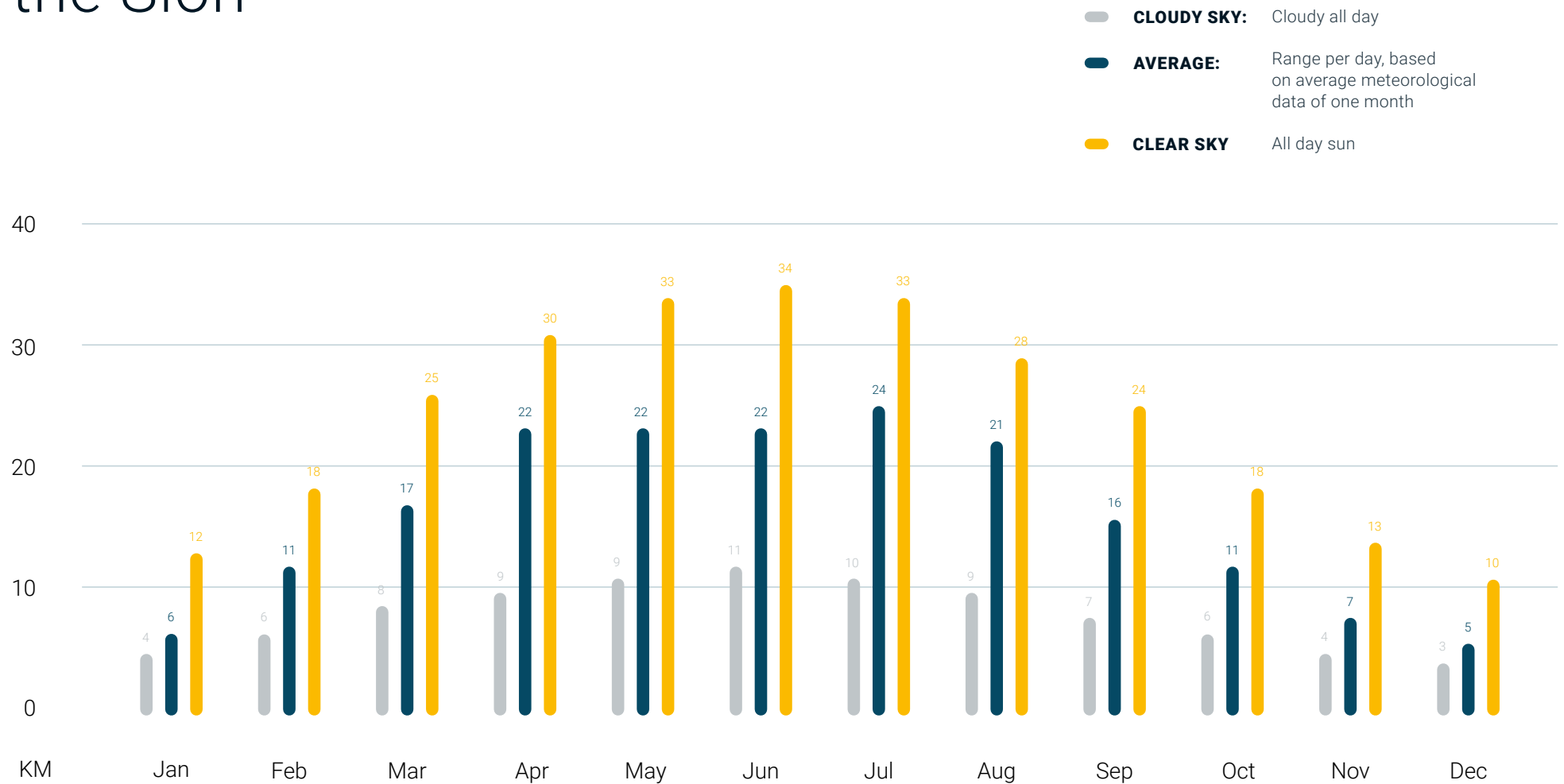
Thus, under ideal conditions, up to 34 kilometers of additional range per day can be achieved with pure solar energy – CO₂ neutral and completely free of charge. This means full self-sufficiency on short distances.

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.**

MUNICH AS AN EXAMPLE

Solar range of
the Sion



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 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 %**.



RAPID 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

Bidirectional Charging



CHARGING CAPACITY IN THE SERIES

50 kW DC with CCS
up to 11 kW AC with Type 2
3.7 kW with Schuko

CHARGE CAPACITY IN THE SERIES

11 kW AC with Type 2
3.7 kW with Schuko

THANKS TO THE BIDIRECTIONAL CHARGING TECHNOLOGY, THE SION CAN DRAW AND STORE ENERGY AND, MOREOVER, SHARE IT TOO.

The Sion is equipped with a household socket (Schuko), which can be used for all common electronic devices and can be operated 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.



THE SION

Interior

**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 Island 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





All-in-One App:

**CAR SHARING,
RIDE POOLING, AND
POWER SHARING.**



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.



SUMMARY

DETAILS AND DATA





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

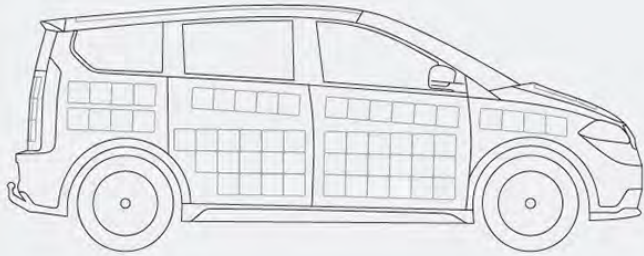
With a maximum towing capacity of 750 kilograms unbraked, you can tow smaller trailers without no problem.

SAFETY

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

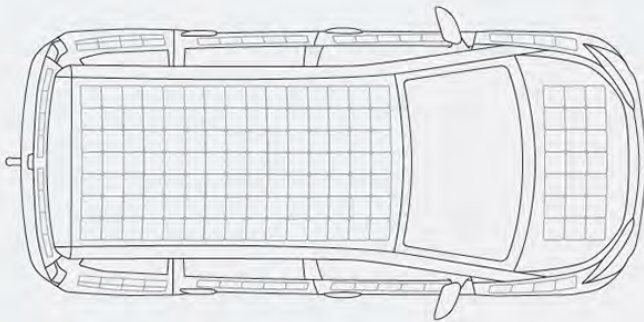


Height 1,670 mm



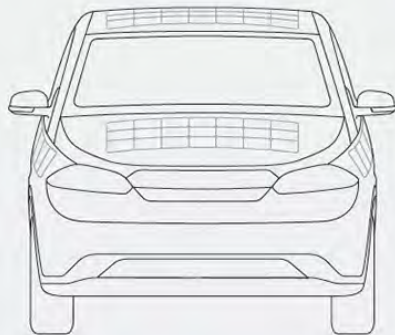
Wheel base 2,770 mm

Width 2,100 mm



Width 1,830 mm

Length 4,290 mm



Track width 1,580 mm

THE SION

Dimensions

	in mm
Total length	4290
Total width	1830
With exterior mirrors	2100
Wheel base	2770
Track width front	1580
Track width rear	1580
Ground clearance	165
Height	1670
Trunk sill height unladen	780
Maximum trunk opening width	1100
Trunk opening height	700
Maximum loading length	1600
Loading length behind rear seats	800
Trunk volume in liters (non-VDA standard)	650
With rear seats folded down	1250



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

MOBILE APPLICATIONS

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

INTERIOR

- ISOFIX children's seat connectors
- Three-point seat belt
- Electric windows
- Folding rear seat backs, divided (60/40)
- Front heated seats
- Single-zone automatic climate control
- Integrated Infotainment system with ambient lighting

SAFETY

- Antilock 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

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 optimized using brake energy regeneration
- Instrument cluster with econometer, body computer module, and external temperature display
- Infotainment system with integrated connectivity, 10 inch display, USB connection, and Bluetooth
- USB (2x Type C) and cupholders located in center console
- Cruise control
- Four speakers in the front and back of the car

**THE SION**

Technical Details

STEERING

Ø turning circle (m) <11 m

Suspension: MacPherson

CHARGING

Charge: 50 kW (CCS) + up to 11 kW
(Type 2/SchuKo)

Discharge: 11 kW (Type 2) + 3.7 kW (SchuKo)

DRIVING PERFORMANCE

Maximum speed: 140 km/h

0–100 km/h <9 Sek.

Electricity consumption ≈ 14 kWh/100 km

Range (WLTP): 255 km

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: approx. 1,400 kg

Maximum authorised mass: approx. 1,950 kg

Cargo: approx. 465 kg

TOW BAR

Nose load: 50 kg

Max. capacity: max. 750 kg unbraked



THE SION

Open Service System

Open Service System is 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:

01

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

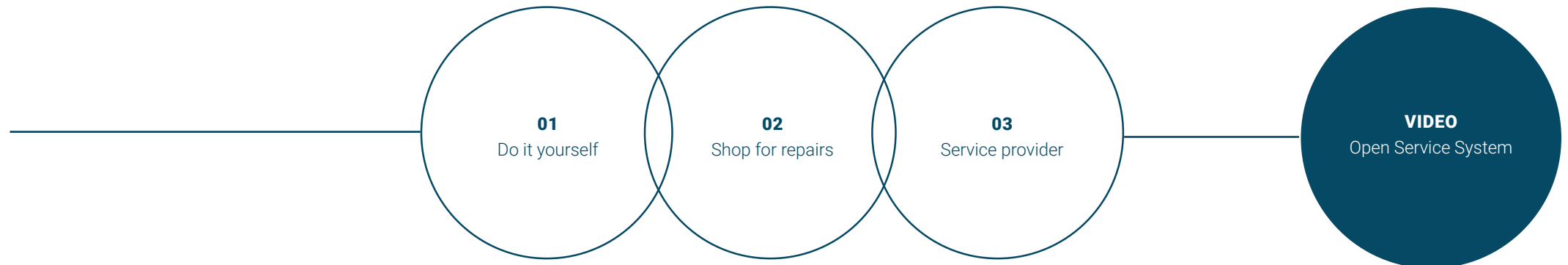
02


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.

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.

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

PRODUCTION

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.



THE SION

Production

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.



THE SION

Reservation

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

Contact

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 2020

[SIGN UP TO OUR](#)
[NEWSLETTER HERE.](#)





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 2020

All texts, pictures, and other works are – unless otherwise indicated – subject to the copyright of Sono Motors GmbH (LLC). Any duplication, distribution, storage, transmission, broadcasting, and reproduction or transfer of the contents is expressly prohibited without the written permission of Sono Motors GmbH. SONO MOTORS is a registered trademark of Sono Motors GmbH. Any use of these trademarks beyond a purely private purpose is expressly prohibited without the explicit written consent of Sono Motors GmbH.

