

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 THE PLANET
AND ITS INHABITANTS?
SOME YEARS AGO, WE ASKED
OURSELVES EXACTLY THAT.
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. One suitable for everyday use with integrated solar cells

and innovative mobility services. Every journey has its beginning, and journeys, by nature, rarely go the way you plan them. We are currently on the way to series production of the Sion.

This information sheet therefore only displays the current development, planning, and technological status of our vehicle. All information on our products and services is thus 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 WITHOUT FOSSIL FUELS.

SONO

Our
Vision

THE SION

Our Mission

**THE SION IS OUR VERY FIRST STEP INTO
THE FUTURE OF SMART, CLIMATE-FRIENDLY,
AND SUSTAINABLE MOBILITY.**

Our goal is to establish large scale smart e-mobility and sharing thereby make a significant contribution to the reduction of global CO₂ emissions.

In order to protect our planet's resources and the environment, world-wide annual vehicle production volumes must be significantly and permanently reduced.

This vision can only be implemented through affordable resource conservational, intelligent mobility concepts. The Sion is the dawn of the future of mobility.





THE CAR THAT CHARGES ITSELF

THE SION

AN ELECTRIC VEHICLE THAT GENERATES
ADDITIONAL RANGE THROUGH THE POWER OF
THE SUN. THE SION AND ITS INTELLIGENT
MOBILITY SERVICES ARE 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 SION

Exterior

The hood, fenders, sides, roof, and rear of the vehicle carry solar cells that seamlessly blend both visually and physically into the car's body.

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 PRO-
TECTED BY A ROBUST,
SCRATCH-RESISTANT
POLYMER.**



THE SION

Sono Solar

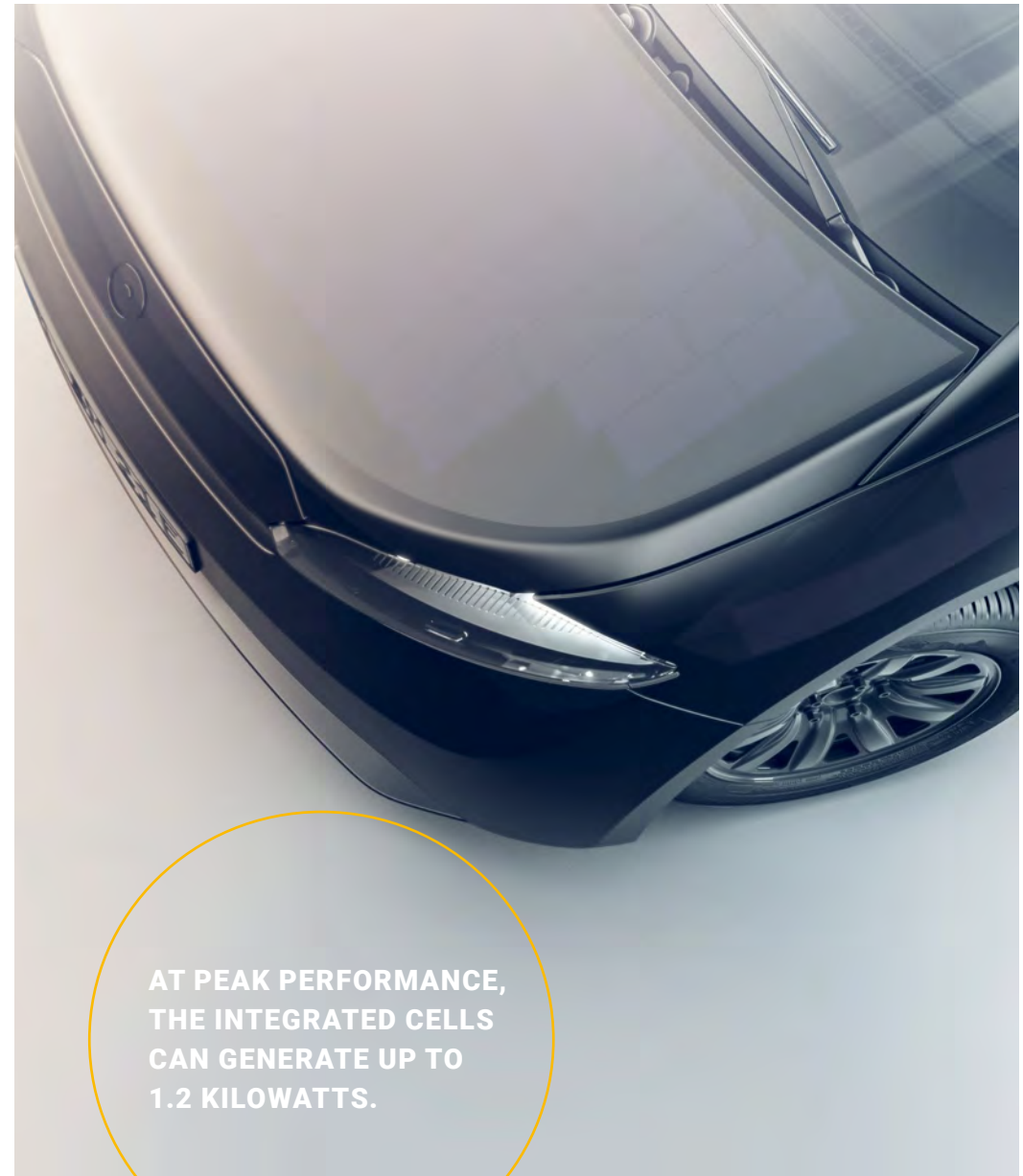
POWER IS WHERE YOU PARK IT. SONO SOLAR IS A TRUE INNOVATION AND IS BASED ON THE IDEA OF GENERATING ENERGY FROM THE POWER OF THE SUN.

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, 112 km on average (up to 245 km max.) 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 trips.

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

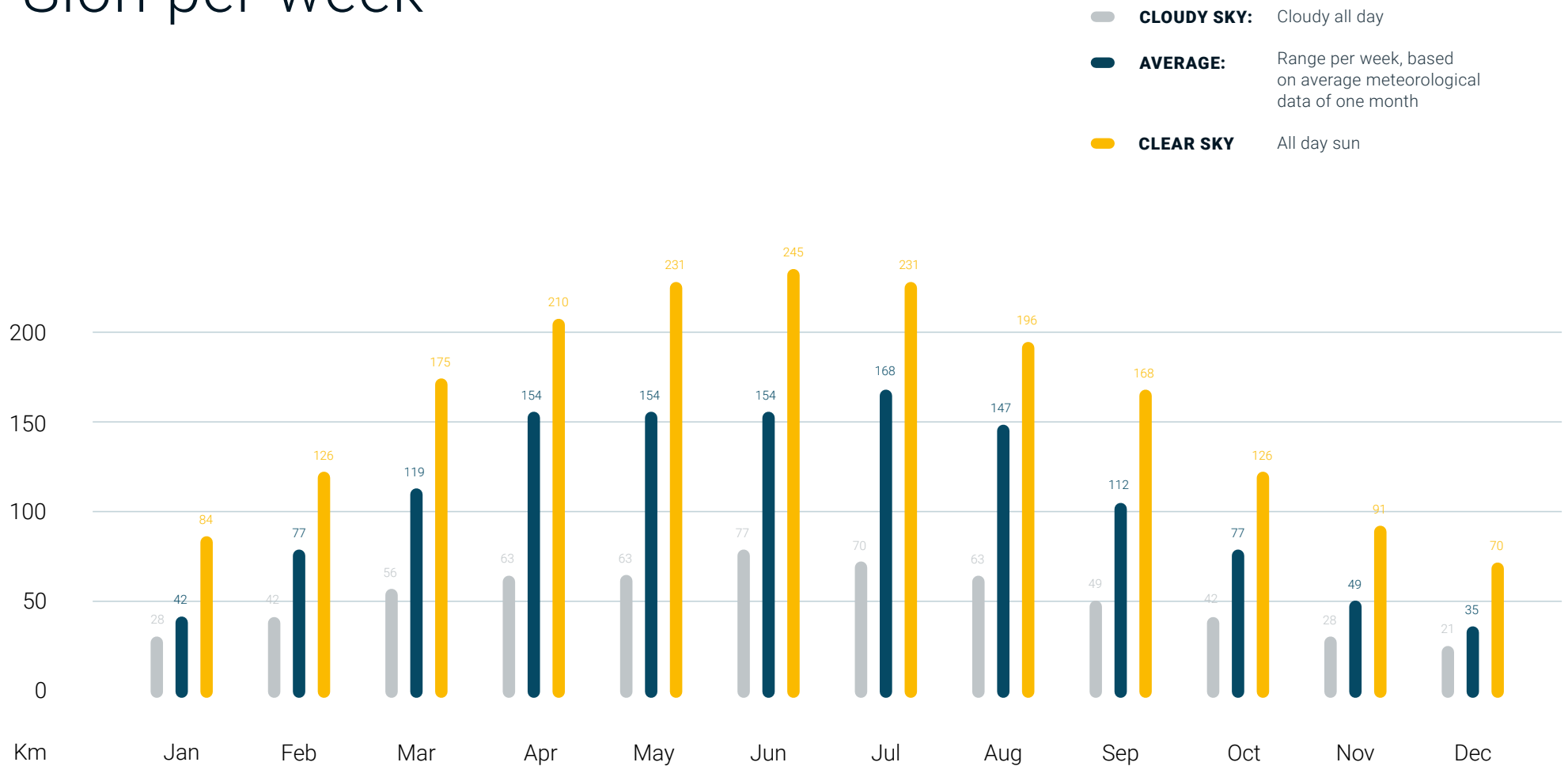
Please note that the stated solar range is provisional. The exact number of kilometers is dependent on the vehicle's final consumption, which can only be determined with the final production vehicle.



**AT PEAK PERFORMANCE,
THE INTEGRATED CELLS
CAN GENERATE UP TO
1.2 KILOWATTS.**

MUNICH AS AN EXAMPLE

Solar Range of the Sion per week



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)

The time taken to charge **up to 80 %** with a Schuko to type 2 adapter cable can be **up to 12.5 hours**, depending on the load capacity of the socket.



STANDARD CHARGING STATION (TYPE 2)

This method takes **4 hours** to provide **80 %** charge and **5 hours** for **100 %**.



FAST CHARGING STATION (CCS)

The Sion can reach **80 % charge** in **35 minutes** using CCS. You will have to allow for an additional **24 minutes** to reach **100 % charge**.

Nevertheless, **80 %** provides **240 km** of range, usually enough to take you to the next rapid charging station.

THE SION

Bidirectional Charging

**SERIES CHARGING CAPACITY**

up to 75 kW DC with CCS
up to 11 kW AC with Type 2
up to 3.7 kW with Schuko

SERIES DISCHARGING CAPACITY

up to 11 kW AC with Type 2
up to 3.7 kW with Schuko

THE BIDIRECTIONAL CHARGING TECHNOLOGY MEANS THAT THE SION IS ABLE TO NOT ONLY DRAW AND STORE ENERGY, BUT SHARE IT AS WELL.

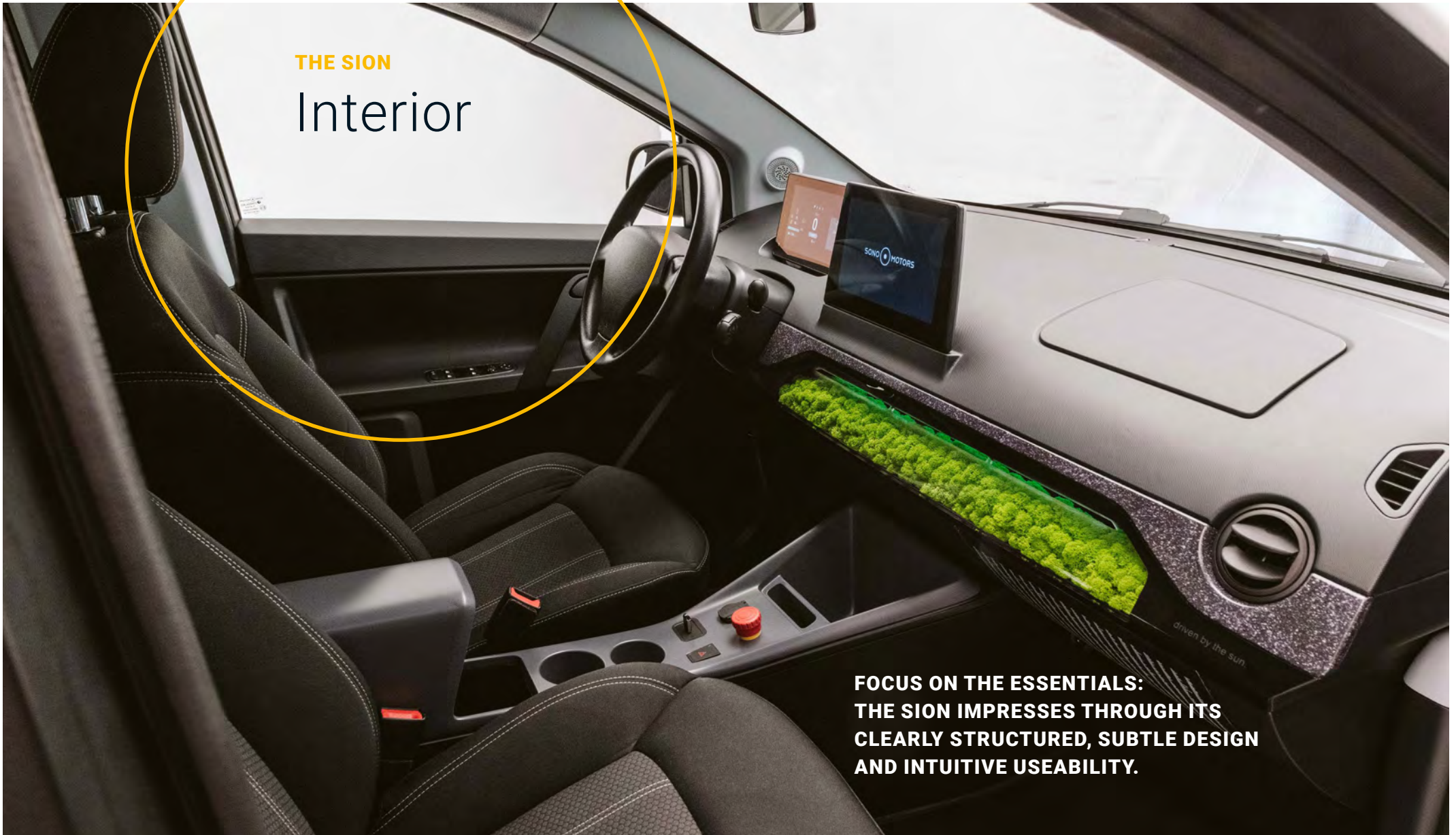
The Sion is equipped with a standard European household socket (Schuko), which can be used for all common electronic devices with up to 3.7 kW. The Sion can deliver even more power when using a Type 2 plug.

You will have the ability to power other electric cars up to 11 kW. When combined with Sono Solar, the Sion can be your power plant on wheels.

THE SION

Interior

**FOCUS ON THE ESSENTIALS:
THE SION IMPRESSES THROUGH ITS
CLEARLY STRUCTURED, SUBTLE DESIGN
AND INTUITIVE USEABILITY.**





THE SION

Interior

The infotainment system, with connectivity and factory integrated mobility services, 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 accessed quickly.

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

The system's ambient lighting color can also 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 AND SUSTAINABILITY.**

Your smartphone enables you to share your Sion, electricity or a ride. The Sono app also acts as a digital key for the Sion itself and is the window to real-time vehicle data.

The Vehicle Connectivity Module controls both the vehicle's data connection as well as the automatic emergency call service (eCall).

You also, of course, will have a car key that you can also use to unlock your vehicle.

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

The Sion enables you to offer other users a ride. You share your itinerary via the infotainment system or the Sono app. We publish the offer on our 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 iron phosphate (LFP) battery has a capacity of 54 kWh and is equipped with a liquid cooling system. The battery capacity is sufficient for a range of up to 305 km in accordance with the WLTP standard.

MOTOR

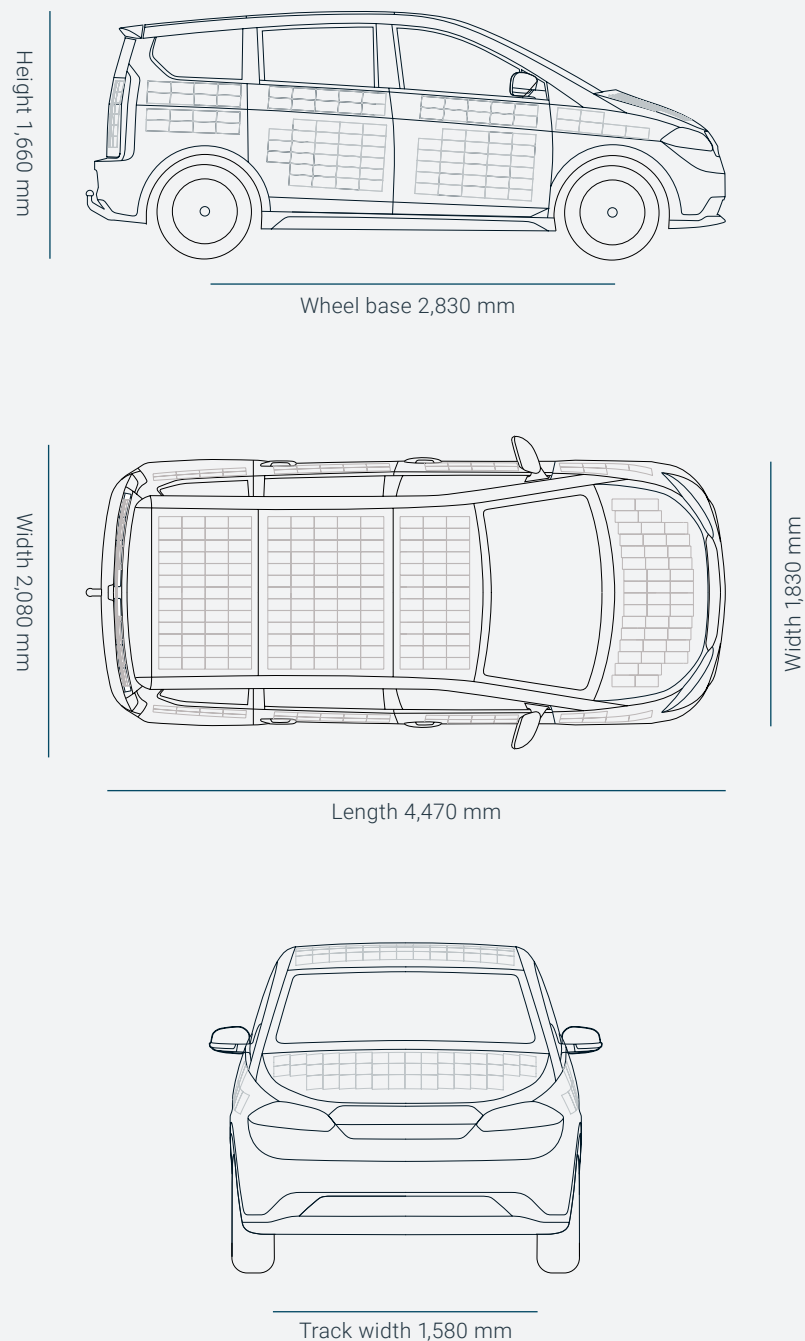
Offering 120 kW (163 h.p.) in connection with a single-speed transmission, the three-phase synchronous motor makes sure you will always enjoy driving the Sion with a top speed of up to 140 km/h. The powertrain's maximum operating voltage is 400 volts. The Sion will be equipped with front-wheel drive.

TOW BAR

Trailer coupling is another of the Sion's unique selling points. We will announce the exact specifications for towing and drawbar loads as the vehicle's development phase continues.

SAFETY

Your safety and the safety of the occupants of the vehicle is of huge importance to us. This is why the Sion comes equipped with ABS, driver and passenger airbags and ESP.



THE SION

Dimensions

	in mm
Total length	4470
Total width	1830
With exterior mirrors	2080
Wheel base	2830
Track width front	1580
Track width rear	1580
Ground clearance	165
Height	1660
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 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 safety seat mount
- 3-point safety belts
- Electric windows
- Height-adjustable driver's seat
- Split-folding rear bench seat (60/40)
- Three headrests in the rear seat bench
- 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
- Rear camera

THE SION

Features

ELECTRONICS

- Charging plug underneath the hood with separate charging lid, automatic charging power adjustment
- Charging output up to 75 kW DC and up to 11 kW AC
- Central locking
- Range optimization through brake energy regeneration
- Cruise control
- Configuration includes six loudspeakers (tweeter, woofer and full-range loudspeaker)

INFOTAINMENT SYSTEM

- Included in the price
- 10-inch multi-touch display
- Digital instrument cluster
- Media: FM/DAB tuner, Bluetooth and USB playback
- Apps: Information about solar power, energy consumption as well as charging and discharging control
- Apple CarPlay and Android Auto Integration
- Bluetooth hands-free calling
- User profiles for personalized settings
- Climate and ambient lighting control
- One USB-C port
- Software updates for continuous improvements and new features

MOBILE APPLICATIONS

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

THE SION

Technical Details

STEERING

Ø turning circle (m)	<11 m
Suspension	MacPherson

WEIGHT

Unladen weight	≈ 1,730 kg
Maximum authorised mass	≈ 2,180 kg
Cargo	≈ 450 kg

DRIVING PERFORMANCE

Maximum speed:	140 km/h
0–100 km/h	≈ 9 seconds
Electricity consumption	≈ 16 kWh/100 km
Range (WLTP)	305 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	54 kWh

CHARGING

Charge	Up to 75 kW (CCS) and up to 11 kW (Type 2/SchuKo)
Discharge	Up to 11 kW (Type 2) and up to 3.7 kW (SchuKo)

THE SION

Open Service System

Open Service System is an intelligently designed maintenance system that keeps costs as low as possible. Through the publication of a workshop handbook we have made it possible to establish an extensive network of independent mechanics, whilst 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

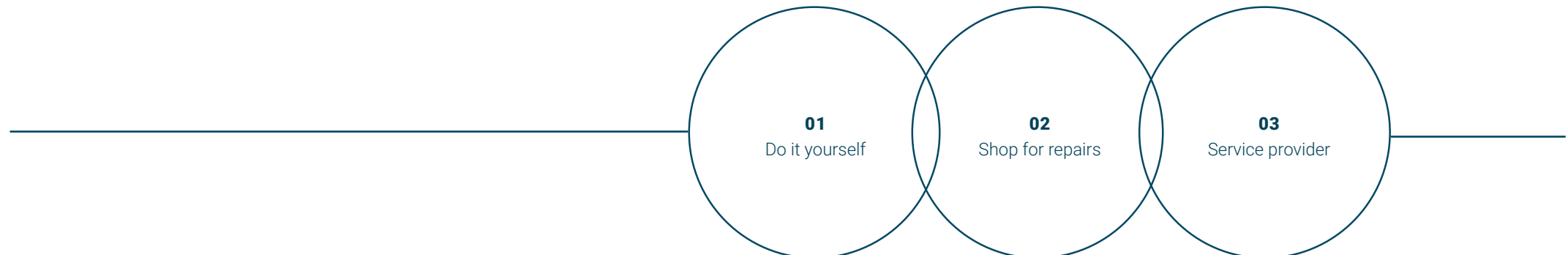
If you don't feel up to it, you can easily bring the Sion into the shop for repairs. We don't use mechanic certifications or develop proprietary technological standards.

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

Production

THE SION IS PRODUCED IN EUROPE. THIS WAY WE ARE ABLE TO KEEP TRANSPORT AND DELIVERY DISTANCES SHORTER AND THEREFORE ENSURE THAT WE HAVE CLIMATE PROTECTION AND SUSTAINABILITY AT THE FOREFRONT OF THIS PROCESS.

THE SION

Production

VALMET AUTOMOTIVE IS ONE OF THE WORLD'S MOST SUSTAINABLE CONTRACT MANUFACTURERS. VALMET AUTOMOTIVE IS CERTIFIED AS CLIMATE-NEUTRAL AS OF 1 JANUARY 2022.

We currently expect that all production-related greenhouse gas emissions that cannot be avoided along its supply chain, or during the production process of the vehicles, will be fully offset through relevant measures.

We value Valmet Automotive's experience in manufacturing premium automobiles and their proven track record in electromobility.

We are convinced that collaborating with such a reliable and experienced partner is an excellent match for bringing the Sion to the streets, while securing the highest quality standards.



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. Additionally, we are working on an entirely new delivery concept. For an extra charge, it will be possible to deliver your Sion to your desired location as well.

RESERVE YOUR SION HERE

SONO

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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 2021

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