

PRESS INFORMATION

Sono Motors – Solar On Every Vehicle

The Company

Munich, November 2021 – Sono Motors, founded in 2016, is on a pioneering mission to accelerate the revolution of mobility by making every vehicle solar. Its disruptive solar technology has been developed to enable seamless integration into all types of vehicles to reduce the impact of CO2 emissions and pave the way for climate-friendly mobility. Today, the company prides itself on having an experienced and rapidly growing team of engineers, designers, technicians, and industry experts who are developing and building a forward-looking electric car that is suitable for daily use, with integrated solar cells and innovative mobility services. The Sion - an affordable, solar integrated electric vehicle that facilitates community-sharing for the masses. The unmatched solar technology is also being licensed to other manufacturers for application in vehicles such as buses, trailers, trucks, camper vans, trains and boats.

In the last months the Munich-based Sono Motors team has grown exponentially, with a force of over 200 strong made up of global talent and experts in their respective fields. This alongside, amongst other things, the announcement of over 16,000 reservations for the Sion, is enabling the company to further its vision. This number is a sign for the entire automotive industry of the growing interest and commitment in environmental preservation for everyday vehicle consumers.

The company's strong Community also sets a new standard of interaction between consumers and businesses. Since the very beginning, the Sono Motors Community has played a very important part in shaping the business.

The Sion

The Sion is an affordable solar integrated electric vehicle that facilitates community-sharing for the masses – something that appeals to all and subverts certain norms of technological innovation, which are often unavailable to everyday consumers.



Through the Sion, Sono Motors intends to blend disruptive technology with affordability to enable individual contribution to global sustainability.

The Sion itself offers 120 kW (163 h.p.). In connection with a single-speed transmission, the three-phase synchronous motor ensures speeds of up to 140 km/h. The interior boasts space for up to 5 people as well as a capacious trunk. The Sono Solar technology replaces traditional paint with proprietary integrated solar panels that can form to various applications. The Sion's solar panels, which are composed of over 248 seamlessly integrated cells, can add 112 km or 70 mi on average (up to 245 km or 152 mi) of additional driving range per week to the car's battery. Bidirectional charging functionality also enables not only the drawing of energy and storage of energy, but also the possibility to share it and power or charge electronic devices (with up to 3.7 kW using a Schuko household plug) or other electric vehicles (with up to 11kW). A bidirectional AC wallbox enables the Sion to be used as a mobile power plant and also to feed stored electricity either back into their house or into the grid itself. The Sion's new LFP battery has a capacity of 54 kWh, providing a battery range of up to 305 kilometers or 190 miles. The LFP (lithium iron phosphate) battery is considered to be one of the safest on the market, and also completely dispenses with the use of cobalt, nickel and manganese.

The Sion is expected to have the lowest TCO (total cost of ownership) in its category at the commencement of production, scheduled for the first half of 2023. Production of the Sion will take place in Trollhätten, Sweden, in the former SAAB plant in cooperation with partner NEVS. NEVS both share the same vision and offer many years of experience in automotive development and production combined with proven expertise in the field of electromobility. After the commencement of production alongside the increase to maximum capacity within the same year, the company intends to produce 43,000 vehicles per year in a 2-shift operation, in collaboration with contract manufacturer NEVS. The total production volume is expected to be 257,000 vehicles over a seven-year period.

Another important aspect of bringing the Sion to the streets comes in the form of the company's collaboration with the Fraunhofer Institute for Solar Energy Systems ISE. The aim of the partnership is to test and certify an innovative technology for integrating solar



cells into the bodywork of electric vehicles as well as to identify other potential areas of application for certification. The partnership involves the comprehensive testing and approval process of Sono Motors' patented solar technology, with particular focus on producing evidence of the technology's safety and reliability.

The work done by Sono Digital also plays a huge role in enabling the company's vision in the field of shared mobility. For Sono Motors, leveraging digital solutions to increase the utilization and utility of the Sion involves three main aspects - Car sharing, Ride Pooling and Power Sharing. These are to be enabled in two main ways - via the on-board infotainment system and the accompanying Sono app. The Sono app will provide the aforementioned solutions as well as provide the car owner with all up-to-date information on important aspects of the vehicle such as state of charge, solar charging and usage statistics, amongst other things. It will also allow the utilisation of the bidirectional charging system which enables the user to share charge stored within the Sion with other electronic devices or vehicles. The Sion's in-built infotainment system allows the passengers to use these services as well as control interior aspects of the car, such as ambient lighting and temperature control.

Sono Motors Sion – Tech Specs

- The LFP battery gives the Sion a capacity of 54 kWh - sufficient to a range of up to 305 km in accordance with the WLTP standard - and provides a maximum charging capacity of up to 75 kW (DC) and 11 kW (AC)
- The three-phase synchronous motor offers 120 kW (163 h.p.) in connection with a single-speed transmission. This enables speeds of up to 140 km/h
- The integrated body PV panels mean that the Sion's range can be extended by 112 km or 70 mi on average (up to 245 km or 152 mi) per week
- Its bidirectional charging capabilities also enable it to power other electronic devices up to 3.7 kW as well as other electric cars up to 11 kW and via wallbox to use the Sion as a mobile power plant and also to feed stored electricity either back into their house or into the grid itself.



- The accompanying Sono App offers a wide range of services at the touch of a screen, such as Car Sharing, Ride Pooling, and Power Sharing
- Measurement specifications include a total length of 4470 mm; total width including exterior mirrors of 2080 mm; a trunk volume of 650 liters; and a total height of 1660 mm
- The Sion purchase price incl. German VAT is €28,500

Unique Technology

Sono Motors seeks to enable resource-saving mobility through all forms of transport, not only through the Sion. Therefore, it announced at CES 2021 its intention to license its unique solar technology to other companies.

One such collaboration was recently announced with MAN Truck & Bus, one of the leading international providers of commercial vehicles. The two companies signed a Letter of Intent, whereby they agreed to jointly investigate the technological and economic feasibility of integrating the Sono Solar technology into MAN's eTGE electric transporter. Three applications are to be equipped with Sono Solar Technology and thereby the focus remains to extend the range of the vehicles or on a self-sufficient supply of auxiliary users, e.g. the air-conditioning system, via acquired solar energy.

Sono Motors also entered into collaboration with EasyMile - a developer of global autonomous technology and vehicle solutions for passengers and goods transportation. This joint venture will include application of the patented solar technology upon EasyMiles' autonomous vehicles, such as the EZ10 electric shuttle, to potentially dramatically shorten charging times and unlock a new type of energy-efficient transportation.

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