

## European Solar and Energy Storage Solutions

# 800v systems Saint Martin



**51.2V**  
**200Ah/300Ah**  
**LiFePO4 battery**



## 800v systems Saint Martin

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### A Certain Move Towards WBG Semiconductors in Electric Vehicles

Therefore, the transition to 800V systems is expected to be rapid in the coming years, and by 2027-2030, more than 90% of EVs are likely to have 800V battery systems. Currently, the 800V EVs are at a very early stage of commercialization. Automakers such as AUDI, Porsche, Hyundai, and Kia already sell 800V EV systems, while LUCID motors has a

### FUTURE HIGH VOLTAGE ARCHITECTURES FOR EVS

WBG TECHNOLOGIES ENABLE 800V COMPETITIVE SOLUTIONS Dr. Ing. Ayman Ayad, Dr. Ing. Philip Brockerhoff -Vitesco Technologies Bonn, 13.10.2021 > HV Box enables reuse of existing systems HV-Box Axle Drive ion st ion Time. EVOLUTION PATH TOWARDS DEDICATED PLATFORMS FOR MASS MARKET AND PERFORMANCE HIGH ...



### MASTER SYSTEMES (SAINT-MARTIN-DE-CRAU) Chiffre ...

En date du 10-10-2024, la société MASTER SYSTEMES, domiciliée au RUE DES BERGERS, 13310 SAINT-MARTIN-DE-CRAU et immatriculée au greffe de TARASCON sous le numéro, ne possède pas, à notre connaissance, de Procédures Collectives de type Règlement Judiciaire et Liquidation de Bien (loi du 13 juillet 1967)

## A Certain Move Towards WBG Semiconductors in Electric Vehicles

Automakers such as AUDI, Porsche, Hyundai, and Kia already sell 800V EV systems, while LUCID motors has a 900V battery system built into its vehicle model Lucid Air. Porsche Taycan launched in 2019 was the first 800V EV in the market with a 270kW charging power, while Lucid Air is the fastest charging EV in the market with a 350kW charging



## Automotive Electric Power Supply Systems: 2024 Snapshot of

Increasing Voltage Levels: Explore the move towards 800V systems in EVs, reducing charging times and enhancing efficiency. Global Technology Trends: Stay competitive with the latest in SiC semiconductors and integrated e-drive concepts.

## MATSUURA MC-800V Vertical Machining Centers

Looking for a USED MC-800V? Have one to sell? Add to Alerts. Remove from Alerts. View 5 historical prices. Email This Model to an Associate. Model. MC-800V twin and multi pallet systems, twin spindles and tool changers, cell systems and our superb range of ultra high speed linear motor machines. 23 Models View more about Matsuura Machinery



## 0-800V,0-67.5A,36kW,Programmable DC Source Systems



0-800V,0-67.5A,36kW,Programmable DC Source Systems; With accurate voltage and current measurement capability. Coded Knob, multifunction keyboard. Standard RS232/RS485/USB/LAN communication interfaces, GPIB is optional; Remote sensing line voltage drop compensation. Equips with LIST waveform editing function.

## Enabling 800 V EVs , Coherent

In summary, by efficiently handling higher voltages and currents while generating less heat, SiC components - both as semiconductor power switches and a composite material for thermal management - enable 800 V systems. Together, they reduce the need for extensive and bulky cooling systems, which can further reduce vehicle weight and complexity.



## Axial Fans with Brushless Motor 12V/24V DC

Designed to integrate perfectly with latest-generation cooling systems, they are ideal for applications that require silence and performance. Equipped with EMC filters and electrical protection, both integrated into the motor, they also guarantee electromagnetic compatibility and safe operation. Brushless Axial Fans 800V. Advanced thermal

## Understanding EV Charging 800V High Voltage ...

But with advancements in charging technologies, there's now a shining hope on the horizon: 800V high voltage systems. This cutting-edge tech promises to drastically cut charging times,

increase driving range, and make EVs more ...



## Production ready Rapide E given world debut at Auto Shanghai

The first car to be built at Aston Martin's state-of-the-art St Athan production facility - the brand's Home of Electrification - Rapide E represents a pioneering first step towards achieving the company's wider electrification strategy and the successful fruition of Lagonda - the world's first zero-emission luxury brand

## Moving to Higher Voltages in Electric Vehicles Whitepaper

The 800V battery system offers twice the voltage and 2.7 times the power density compared to a 400V system, which translates to exactly what customers are looking for: the ability to drive further between charges and charge the batteries faster once required. And it's important to note that this move to higher voltage battery systems is



## Aston Martin launches its first all-electric car; Rapide E, James ...

This bespoke battery pack lies where the original



6.0-litre V12, gearbox and fuel tank were located, with the 800V system allowing for more efficient charging and greatly improved thermal

## ZF Opens Pioneering 800V Test and Validation Laboratory in the ...

(IN BRIEF) ZF has inaugurated the UK's first dedicated 800V Test and Validation Laboratory at its R& D hub in Solihull, aiming to enhance the development of next-generation electric vehicles (EVs). Partially funded by the Advanced Propulsion Centre (APC), this advanced facility offers crucial testing capabilities for hazardous voltage systems, enabling ...



## Will 800 V charging become the EV industry norm?

To gain consumer trust, EV charging must be tailored to meet the demands of the typical user -- even on longer journeys. Unlike routine charging for short, daily commutes that can be carried out overnight or at the office, a driver undertaking a cross country trip expects to add 250 miles of range within the typical rest period of 15 to 20 minutes.

## Enabling 800 V EVs , Coherent

In their drive to enhance EV efficiency and consumer appeal, automakers have focused on the adoption of 800 V electrical systems. This

higher voltage is not merely a technical upgrade; it's a transformative approach to how EVs are powered that offers substantial benefits over 400 V systems that are predominantly used today.



## Understanding EV Charging 800V High Voltage Technology

But with advancements in charging technologies, there's now a shining hope on the horizon: 800V high voltage systems. This cutting-edge tech promises to drastically cut charging times, increase driving range, and make EVs more practical for the everyday driver.

## 800V - Wofür man die doppelte Spannung braucht

Das Hochvoltsystem der meisten, heute erhältlichen Elektroautos basiert auf einer Architektur mit ungefähr 400 Volt Systemspannung. Allerdings stehen mit Aston Martin Rapid E, Porsche Taycan oder dem Rimac C\_Two hochkarätige Elektrosportler in den Startlöchern, die diese Spannungsgrenze nach oben verschieben, ja sogar verdoppeln. Doch ...



## Production-ready Aston Martin Rapide E unveiled

The first car to be built at Aston Martin's St Athan production facility, the electric model will have a limited production run of 155 units and has been developed in collaboration with Williams Advanced Engineering (WAE). However, the car's



800V high-voltage battery system enables faster charging of 310 miles (500km) of range per hour

## Production ready Rapide E given world debut at Auto ...

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