

## SolarMax Energy Systems

# 800v high voltage fast charging inverter



## Overview

---

What is 800V EV charging system?

Inquiry: [contact@brogenevsolution.com](mailto:contact@brogenevsolution.com) The 800V system for EV means the voltage range of the entire vehicle is within 550V and 950V. It can increase the charging speed of EV.

Why do we need 800V inverters?

Growing demand for more electric vehicle efficiency, higher charging convenience with appropriate infrastructure, and reduced charging times leads many car manufacturers to explore and develop new age charging systems and technologies such as 800V inverters enabling higher efficiency and cost-effectiveness.

Are there any 800V Chargers on the market?

Currently, there are relatively few 800V chargers on the market. However, some models are equipped with on-board voltage boosting systems that increase the charging voltage to 800V during the charging process, ultimately achieving fast charging. Inquiry: [contact@brogenevsolution.com](mailto:contact@brogenevsolution.com).

Can the 800v high voltage platform be used for fast charging?

However, whether the 800V high voltage platform can be used for fast charging during the charging process depends not only on whether the vehicle itself supports 800V, but also on the cooperation of the charging stack. Currently, there are relatively few 800V chargers on the market.

What is a high voltage inverter?

The inverter is the brain at the heart of the powertrain, it controls the electric motor. It converts Direct Current (DC) from the battery to Alternative Current (AC) to power the electric Motor.

How fast can an 800V Charger charge a car?

An 800V car can accept much higher power levels (up to 350kW) from a compatible DC fast charger. This can mean charging from 10% to 80% in under 20 minutes —turning a lunch break into a full charge. More Consistent Performance: Because the system generates less waste heat, the charging speed is more stable and reliable.

## 800v high voltage fast charging inverter



### Delphi and Cree Partner on 800V SiC Inverter to Cut ...

The technology, which supports multi voltage platforms, is an evolution of the company's proven high-voltage inverter and builds on 25 ...

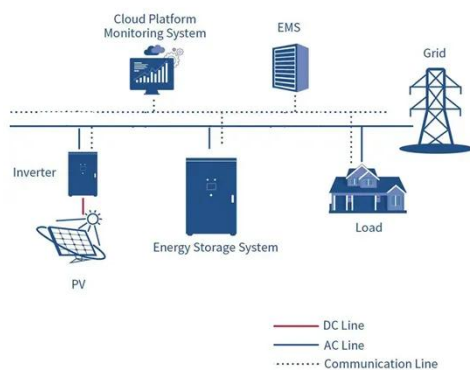
[Get a quote](#)

### The new standard of 800V high-power EV inverter - IV5

Recognizing this trend, Punch Powertrain has developed the IV5--a cutting-edge 800V high-power inverter. This product leverages the company's extensive expertise in ...



[Get a quote](#)



### Infineon high voltage Inverter Application Presentation

Infineon high voltage Inverter Application Presentation Traction Inverter trends Semiconductors contribute to improved energy efficiency, but also to size and weight reduction, to improve the ...

[Get a quote](#)

## EV Fast-Charging Stations , Vicor , Automotive

Grappling with the EV 400V and 800V charging dilemma? Vicor deliver the surest way to eliminate compatible with any DC fast-charging station.

[Get a quote](#)



## Power boost with 800V systems - development of high voltage

There are two main advantages in using 800V systems, improving inverter's efficiency: faster charging as more power is transferred in less time and reduced power losses in the cabling.

[Get a quote](#)

Support Customized Product

## The Rise of 800V Electric Vehicles and Role of Silicon Carbide

The Rise of 800V Electric Vehicles and Role of Silicon Carbide Exploring the engineering merits of higher voltage battery systems for next-generation EVs, and the benefits ...

[Get a quote](#)



**Here are all the EVs with 800V charging available in ...**



As technology advances, electric cars are improving their fast-charging times. That means less time spent waiting at a DC public charger ...

[Get a quote](#)

---

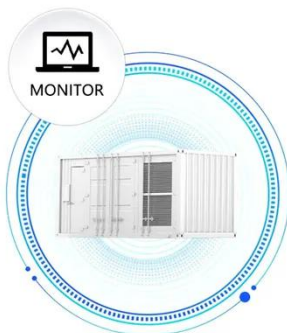
## 800V EV Battery Pack: The Key High-Voltage Parts Explained

800V EV Battery Pack: The Key High-Voltage Parts Explained A Kia EV6 electric car (with an 800V high-voltage lithium ion batteries system) charging in the city. Ever wonder ...

[Get a quote](#)



SUPPORT REAL-TIME ONLINE  
MONITORING OF SYSTEM STATUS



## New Energy Electric Vehicle 800V High Voltage ...

As the electric vehicle (EV) market rapidly evolves, 800V high-voltage platform technology is emerging as a key industry focus. Compared to ...

[Get a quote](#)

---

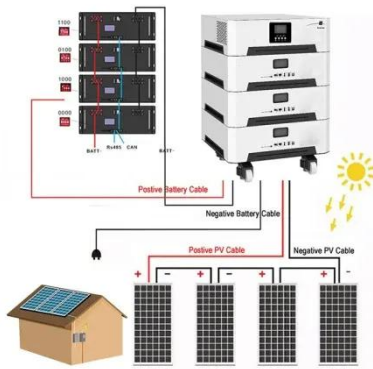
## Understanding the 800V High Voltage Platform in Electric Vehicles

Currently, there are relatively few 800V chargers on the market. However, some



models are equipped with on-board voltage boosting systems that increase the charging ...

[Get a quote](#)



## Junction temperature estimation of a SiC MOSFET module for 800V high

Owing to the active demands of fast charging technology and 800V high-voltage systems in EVs, SiC MOSFET devices with 1200V blocking voltage have gained significant ...

[Get a quote](#)

## 400V/800V onboard charging , 400V to 800V DC fast-charging

Enabling vehicle electrification with a high density, scalable, modular power solutions. Partnering to create tailored power conversion solutions

[Get a quote](#)



## XPeng Announces 480 kW Chargers And 800V SiC ...

XPeng announced the introduction of China's first 800 V high-voltage mass-

production SiC platform, which further boosts efficiency and fast charging.

[Get a quote](#)



---

## **Solving 400V/800V EV fast-charging compatibility , Vicor**

Simple and efficient 400V/800V EV fast-charging compatibility using scalable, bidirectional, high density power modules. Explore Vicor solutions for automotive applications.

[Get a quote](#)



## **Hyundai's E-GMP Can Use 400/800V DC Chargers ...**

The second one, on the right, is indirect charging from a 400 V DC fast charger, that involves power electronics (inverter) of the Integrated Drive Axle (IDA) to ...

[Get a quote](#)

---

## **Delphi and Cree Partner on 800V SiC Inverter to Cut ...**

The new inverter enables electrical systems up to 800 Volts, significantly extending electric vehicle (EV) range and



halving charging times ...

[Get a quote](#)



## 800V EV Charging Explained: The Tech That Makes EVs Charge Twice as Fast

Ever wonder why some EVs charge in 18 minutes? It's all about 800V architecture. We explain the science in simple terms and show you which cars have it. Use our interactive ...

[Get a quote](#)

## High Voltage 800V SiC Inverter , Valeo for automotive

It converts Direct Current (DC) from the battery to Alternative Current (AC) to power the electric Motor. It can also be used in reverse mode ...

[Get a quote](#)



## Understanding the 800V High Voltage Platform in ...

Currently, there are relatively few 800V chargers on the market. However, some

models are equipped with on-board voltage boosting systems ...

[Get a quote](#)



## New Energy Electric Vehicle 800V High Voltage Technology

As the electric vehicle (EV) market rapidly evolves, 800V high-voltage platform technology is emerging as a key industry focus. Compared to traditional 400V systems, this ...

[Get a quote](#)



## Solving 400V/800V EV fast-charging compatibility , Vicor

Simple and efficient 400V/800V EV fast-charging compatibility using scalable, bidirectional, high density power modules. Explore Vicor solutions for ...

[Get a quote](#)



## Delphi and Cree Partner on 800V SiC Inverter to Cut EV Charging ...

The new inverter enables electrical systems up to 800 Volts, significantly

extending electric vehicle (EV) range and halving charging times compared with today's state-of-the-art ...

[Get a quote](#)



## Making the Move from 400V to 800V EVs, What Are the Test ...

Advantages of 800V Significant Improvement in Charging Time Theoretically, double the voltage means the charging time could be halved. Charge 10-80%: 15-18 min vs up to 30 mins using ...

[Get a quote](#)

## High Voltage 800V SiC Inverter , Valeo for automotive

It converts Direct Current (DC) from the battery to Alternative Current (AC) to power the electric Motor. It can also be used in reverse mode to charge the battery by transforming ...

[Get a quote](#)



## Power boost with 800V systems - development of ...

There are two main advantages in using 800V systems, improving inverter's

efficiency: faster charging as more power is transferred in less time and ...

[Get a quote](#)



---

## Porsche Debuts World's First 11 kW Wireless EV Charging ...

5 days ago· Growing EV fleets create an exponential demand for high-performance IPMs. Shift to High-Voltage 800V Architectures Traditionally, EVs used 400V systems, but automakers are ...

[Get a quote](#)



---

## The Rise of 800V EV Architecture: Benefits and ...

Higher Voltage, Lower Current: With double the voltage of traditional 400V systems, 800V EVs can deliver the same power using half the ...

[Get a quote](#)

---

## 800V High Voltage Platform Research Report, 2022

Research on 800V high voltage platform: the mass production will commence in

2022 800V high voltage platform-based models are a key deployment of OEMs. Hyundai: It takes just 18 ...

[Get a quote](#)



## 800V EV Charging Explained: The Tech That Makes ...

Ever wonder why some EVs charge in 18 minutes? It's all about 800V architecture. We explain the science in simple terms and show you ...

[Get a quote](#)

## 800V High-Voltage Technology Analysis in EV

Explore the advancements in 800V high-voltage technology for new energy vehicles (NEVs) and its benefits over 400V systems, including faster charging, reduced energy ...

[Get a quote](#)



## 800V Fast Charging: Revolutionizing EV Charging

800V high-voltage fast charging technology is a key upgrade in the electric vehicle (EV) industry, designed



to address the challenges of range and charging efficiency.

[Get a quote](#)

## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://www.zenius.co.za>