



**RELIABLE POWER
UNSTOPPABLE ENERGY**

**ADVANCED ELECTRONICS
FOR ENERGY APPLICATIONS**

EMPOWERING EFFICIENT, SUSTAINABLE ENERGY

Prima Electro leads the way in electrification innovation, providing advanced embedded power and control systems designed for the most demanding energy applications. Our custom solutions meet the evolving requirements in **charging Infrastructures**, **storage systems** and **on-board charging**.

PRIMA ELECTRO DELIVERS

- **SiC technology**
Greater efficiency and enhanced performance
- **High power density**
Space optimization and weight reduction
- **Modularity**
Flexible designs tailored to diverse power requirements

CHARGING INFRASTRUCTURES

POWERING THE GRID WITH SMART CHARGING SOLUTIONS

Powerful solutions that deliver seamless and **efficient performance**, ensuring both compatibility and scalability. **Modular** and customizable to suit the specific requirements of each HUB.

eCHARGER20

AC/DC converter for EV charging stations, optimized for 400V battery vehicles. Parallel modules provide up to 120kW, thanks to its versatile **bidirectional** topology.

- Bidirectional 20kW AC/DC converter for EV columns
- Compact and efficient, designed for reliability in varied conditions

eTHUNDER

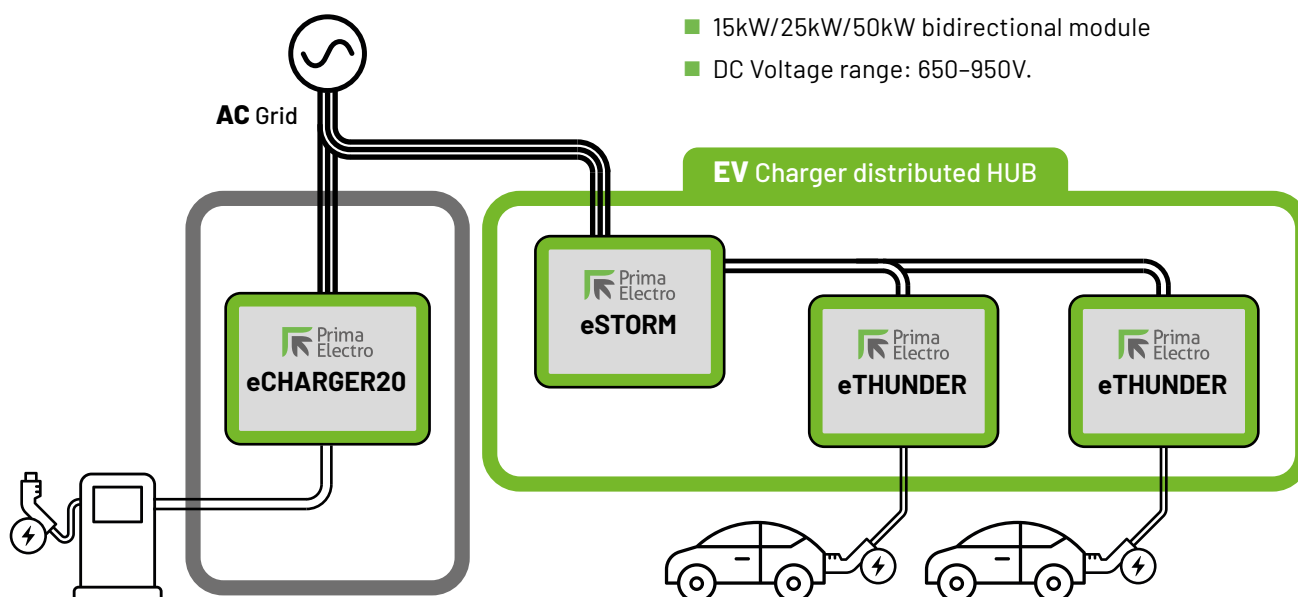
Flexible DC/DC converters for EV charging, compatible with current and future high-voltage battery systems. Parallel modules deliver up to 500kW with a versatile bidirectional topology.

- 3,6 kW/25kW/50kW bidirectional modules
- Vehicle-to-Grid (**V2G**) ready

eSTORM

The **Active Front-End (AFE) module** plays a key role in EV charging stations, continuously **monitoring** and **regulating** AC grid parameters to ensure efficient, safe, and fast charging.

- 15kW/25kW/50kW bidirectional module
- DC Voltage range: 650–950V.



STORAGE SYSTEMS

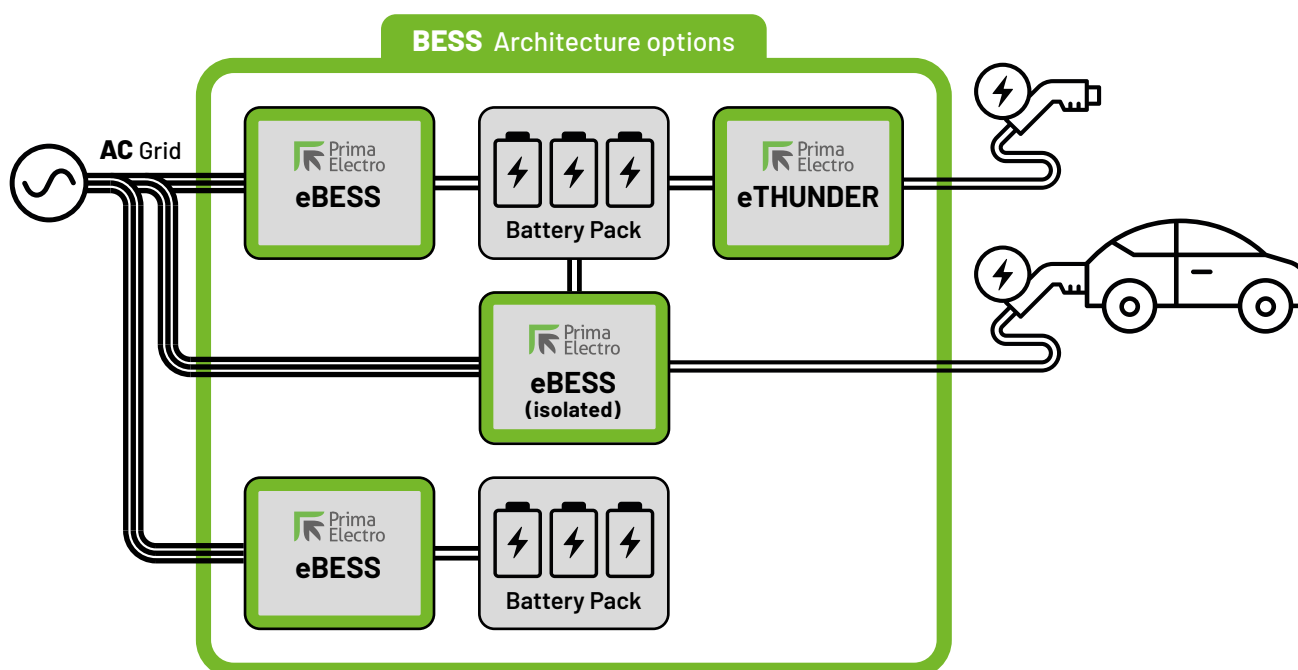
ENERGY STORAGE, TAILORED TO YOUR NEEDS

Flexible, efficient solutions for industrial and commercial energy storage.

eBESS

Versatile **inverters** for Battery Energy Storage Systems (BESS) handling voltage ranges **from 350V to 750V** and **from 650V to 950V** (*dedicated module*).

- Flexible architecture, different power ranges (from 15 kW to 50kW)
- Single-phase and three-phase output (**dual-capability** for broad applications, from industrial to residential)
- **Isolated module** for integration in charging stations (*optional*)



ON-BOARD CHARGING SYSTEMS

A NEW ENERGY ON THE MOVE

Robust and **compact** solutions designed for the **off-road**, ensuring reliability and performance in harsh environments.

eTwinCHARGER10

A robust **10kW On-Board Charger** designed for off-road vehicles, capable of independently charging two battery packs.

- Rated voltages: 28V and 128V

Motor Inverter for special vehicles

Versatile inverter for **electric propulsion**, **hybrid systems**, and **autonomous vehicles**, combining advanced control, safety features, and environmental adaptability.

- Nominal input voltage: 350 VDC
- Input voltage range: 250 ÷ 750 VDC
- IP00 (open type) with insulated heatsink housing for power and auxiliary voltages



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