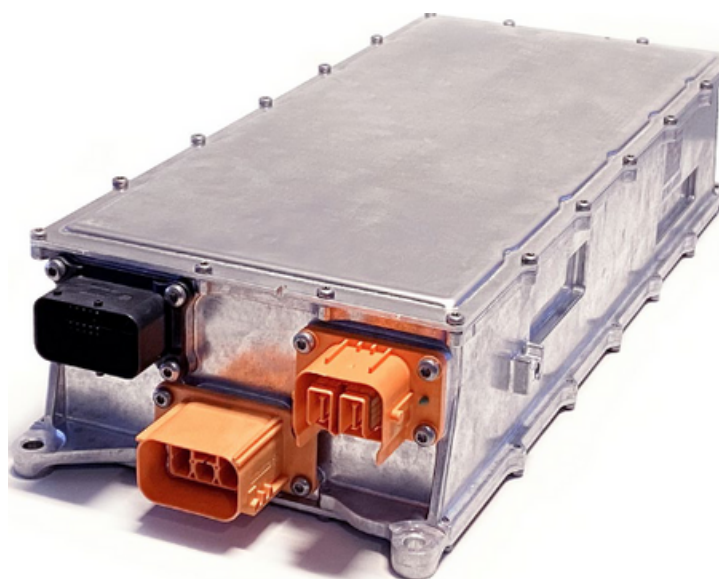


ON-BOARD BATTERY CHARGER

This On-board Battery Charger is developed by Meta System with the support of Bluewind and powered by Infineon AURIX Microcontrollers. It is designed to integrate into vehicles, offering high efficiency that significantly reduces charging time. It's optimized design ensures cost-effectiveness, reduced weight and volume.

WHAT IS IT & HOW IT WORKS?

- It is a charger unit that transforms AC voltage from various public networks into a variable DC voltage to charge a high voltage accumulator efficiently.
- It is compatible with electrical standards in Europe, Asia, and the USA, making it versatile for connection to most electrical networks.
- Equipped with PLC (Power Line Communication), it facilitates data exchange with the charging station.
- With an output voltage of 400V and power output of 22kW in 3ph config., 7.4kW in 1ph config., it offers flexibility in charging options.
- It features liquid cooling, power factor correction, and the ability to regulate output current, voltage, and power as needed.



BLUEWIND & METASYSTEM

The collaboration between Bluewind and Meta System extends across multiple initiatives, with Bluewind support through the provision of development tools, embedded software solutions for AURIX (Infineon MC-ISAR, Hitex SafeTpack TC3xx) and seamless integration assistance.



EFFICIENCY

Reduced cost, mass, and volume.



FAST CHARGING

Improved charging performance that leads to shorter refueling times.



SAFETY

Compliant with ISO 26262, ISO 6469-3 and IEC 61851-21 standards.

