A200 | A300 | A400

Charging Made Seamless

ABB E-mobility

Performance that Powers Profitability

As EV adoption accelerates globally, the demand for flexible high-power charging solutions is surging across diverse use cases, from highway corridors to urban locations.

For CPOs, deploying reliable and cost-effective EV chargers that meet today's needs while enabling future growth is paramount. Industry trends such as power density, user experience, and future-proof compliance are major factors influencing the purchasing decisions of CPOs who seek charging solutions that deliver optimal performance, reliability, and flexibility—without unnecessary complexity.

The All-in-One series offers a comprehensive approach to EV charging by seamlessly blending hardware, software, and services into your existing ecosystem.

Future-proof Investment

Maximize your infrastructure investment with a platform that evolves with market demands.

Operational Excellence

Drive profitability through superior reliability and simplified operations.

Grid & Energy Optimization

Lower infrastructure and operating costs while delivering consistent high-power charging.

Seamless User Experience

Increase utilization rates and customer satisfaction with a premium charging experience.

Charging Made Seamless

Power Fit for Purpose

- Expand power with demand: from 200 kw to 300 kW or 400 kW
- 2x 600 A peak for CCS1 and CCS2
- 10-year expected lifespan

Branded Experiences

- Color, materials and finish to match brand identity
- Configurable digital moments
- Seamless app integration

Reliable Energy Delivery

- Asset set-up and management
- On-site support with locally stored spare parts
- Full operational handling
- Focus on maximizing charging success rates

Award-Winning Design

"This design impressively streamlines the EV charging experience."

– iF GOLD STATEMENT

iF Design Award Winner

2025 Gold-award winner for an intuitive and user-centric HMI design. The highly accessible UX guides new and existing EV owners with clarity and simplicity.

Red Dot Award Winner

Recognized for outstanding product design, delivering intuitive, user-centric solutions that redefine innovation in electric mobility.

Seamless Experience

Superior Screen

The large HD front-facing screen at 32 inches enhances accessibility and displays real-time charging data.

Anti-Glare Display

A textured display minimizes glare in all environments for AAA-rated legibility of text in the chosen font color.

Your Brand Made Visible

Configurable physical and digital experiences are tailored to your brand identity.

Design Aesthetics

Choose logo placements and custom cabinet colors in automotive-grade paint for the most premium site experience.

Digital Moments

Insert digital brand interactions into our award-winning user interface without compromising on charging success rate.

Our Core Technology

Next-generation power modules are developed entirely in-house for improved efficiency and long-term durability.

97%

Peak Conversion Efficiency

Engineered with SiC technology

SiC semiconductors deliver up to 97% conversion efficiency and reduce energy costs by 20-40% compared to traditional silicon-based systems.

Reactive Power Support

Resilience against grid disturbances

Reactive Power Support with ride-through capability actively balances the grid against 90% of known disturbances, maximizing charger uptime.

50 kW

Power Granularity

Power sharing for optimal utilization

Dynamic Power Allocation distributes power where it's needed, optimizing energy delivery across two outlets.

Advanced Remote Diagnostics

Setting new standards in remote monitoring

Critical grid and charger data is monitored at 10,000 times per second with Advanced Remote Diagnostics, improving serviceability.

500,000 hrs

Accumulated Testing Efforts

Over 50 years of accelerated life testing

ABB E-mobility chargers and power modules are designed with modular sub-assemblies, enabling rigorous testing of individual components and subsystems.

Field-Upgradable Power

Designed with a modular architecture, our future-proof All-in-One series grows with you. Start with 200 kW and expand output to 300 kW or 400 kW directly on-site.

A Fully Managed Charging Solution

We provide tools and services needed to monitor, control, and maintain your EV charging network—remotely and on-site.

Network Operation

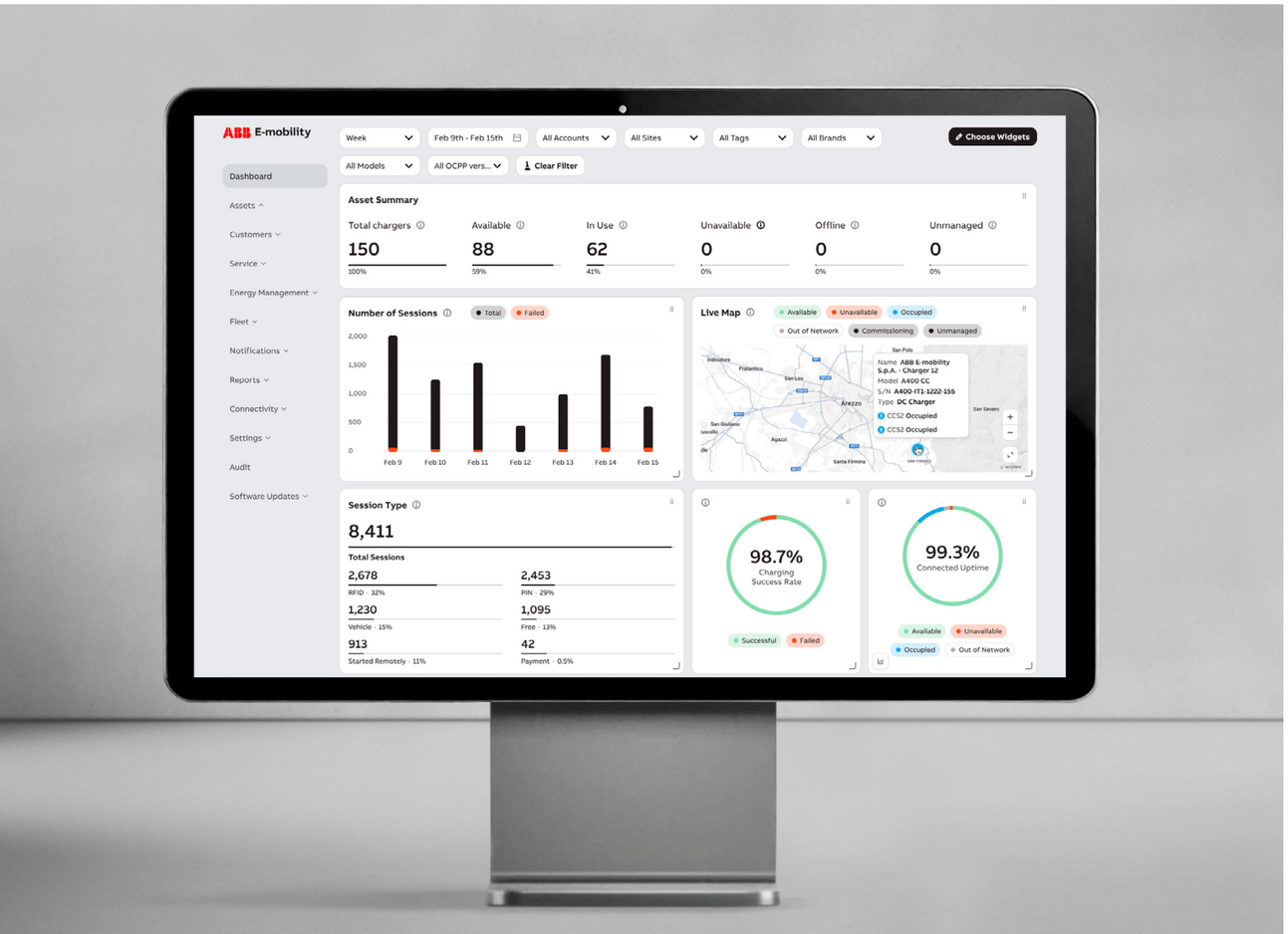
Service & Maintenance

Site Configuration

Business Case

Scalable Public Charging

Software Integration



Key Features

In-house Power Electronics

Scalable power output is delivered through **SiC power modules** engineered in-house.

Cooled Connectors

Patented two-phase cooling technology increases connector reliability and reduces maintenance costs.

Real-time Remote Monitoring

A unified toolchain with integrated connected services **maximizes charging success rates.**

Dynamic Power Sharing

Two vehicles charge simultaneously with **50 kW granularity** for optimal utilization.

User-centric Display

Our award-winning HMI on a **32” front-facing screen** provides clarity throughout the charging process.

Optimized Airflow

Unrestricted airflow maximizes cooling efficiency for sustained high-power charging.

600 A	**OCPP 1.6J & 2.0.1**	**ISO 15118-2**	**4.8 m 3.5 m**	**CCS1 CCS2 NACS**
Peak 2x	Ready	Ready	Cable Length and Reach	Dual Connector

We Electrify Mobility

e-mobility.abb.com/A400

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