

Product note

AC Charge Station

Electric vehicle infrastructures

ABB moves to deliver advanced vehicle charging solutions, providing maximum safety and reliable performance for regular and semi-fast charging on public parking lots or in your private garage.

The ABB AC Charge Station recharges electric vehicles in a few hours – at night or when the driver is at work, or during every day activities, such as shopping or dining out. Adhering to latest standards and technologies, the product combines maximum user safety with high charging performance.

Using a modular design, the ABB charger can be provided with three different setups:

- single charging unit, one socket
- dual charging unit, two sockets
- full function charger with vertical display, one or two sockets

ABB offers a complete range of charging solutions for electric vehicles. The product portfolio includes AC Charge Stations for private and public use as well as DC fast charging stations.

ABB's vast experience with grid infrastructure and power electronics as well as low voltage products will enable the deployment of advanced charging stations at a sustainable cost, enabling e mobility as a mass market transport solution.



Commitment to E-mobility

ABB develops efficient components and systems to charge electric vehicles; committing itself to:

The driver

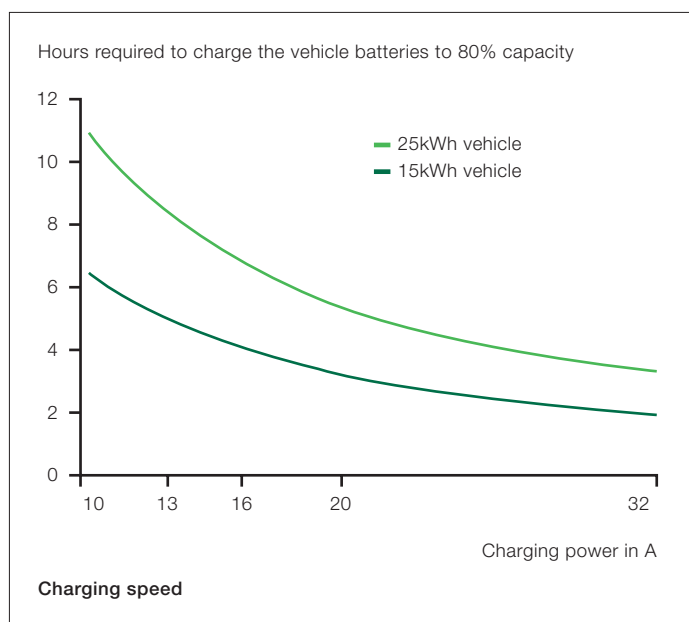
- enabling safe and fast charging
- delivering a simple and intuitive solution for ease of use

Utilities and infrastructure providers

- providing integrated and smart charging solutions

The environment

- making individual mobility more sustainable
- allowing e-mobility to be powered by renewables



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Maximum safety

In compliance with relevant standards (IEC 61851), the AC Charge Station is secured by a residual current device (RCD) and a circuit breaker. External parts are only energized when the charging cable is plugged in correctly and charging is activated. In case of misconnection or accident, electric power is shut off immediately.

Power and Speed

The time to charge an electric vehicle depends on the power available from the charging station. The AC Charge Station offers higher power than a household socket outlet, allowing cars to be charged within 2 to 4 hours. Synchronization of charging performance by communication with the car allows maximum charging speed for each type of vehicle battery.

Power tariffs

The system allows to take advantage from low priced electricity tariffs, with the possibility to schedule the recharging of the vehicle during the night.

Simple handling

The chargers have a LED signaling system to provide information on the status of the charging (available, charging, charge complete, out of order) and up to two display for visual communication with the customer.

RCD and circuit breaker are accessible to owners or laymen through a lockable shutter.

Compatibility

The AC Charge Station supports mode 3 charging, the standard endorsed by leading car manufacturers (connector type 2/3, IEC 62196). The charging station will remain compatible with future electric and plug-in hybrid vehicles.

Robust design

All versions have metal frames and plastic IK10 exterior, designed to withstand outdoor climatic conditions and vandalism.

Customer branding

The enclosure is completely available for individual visualizations.

Technical specification

Voltage	single-phase 230V, three-phase 400 V
Charging Current	up to 16 A single phase, up to 32 A three-phase
Standard	IEC 61851, Mode 3
Enclosure	IP44, IK10

Billing and Communication

The AC Charge Station is prepared for future requirements including features like identification, billing and communication.

For further information contact:

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