

Smarter Mobility

Holistic charging infrastructure solutions

They say that EV charging infrastructures are the 'fuel station of the future'. With its future-proof charging technology and unrivalled connectivity, ABB wants to ensure that the affordable, long-range electric vehicles of tomorrow are fully supported by reliable infrastructures today. ABB charging points and fast-charging stations will be the fuel of electric cars, electric buses and other passenger service vehicles.



Electrical Vehicle Infrastructure

AC wallbox





3-22 kW



4-16 hours

DC wallbox



20-25 kW

1-3 hours

DC Fast



50-180 kW

15-60 min

DC High Power





150-350 kW

8-20 min



Further influencers on the charge speed





Battery pack capacity

Larger battery packs can be charged faster



State of charge

Charge speed can drop to prevent the battery cells from overheating



Battery temperature

Heating or cooling systems keep the temperature constant



Battery chemistry

Higher perfomance causes cost and additional weight



What are the fast-charging standards currently being used by electric car manufacturers?

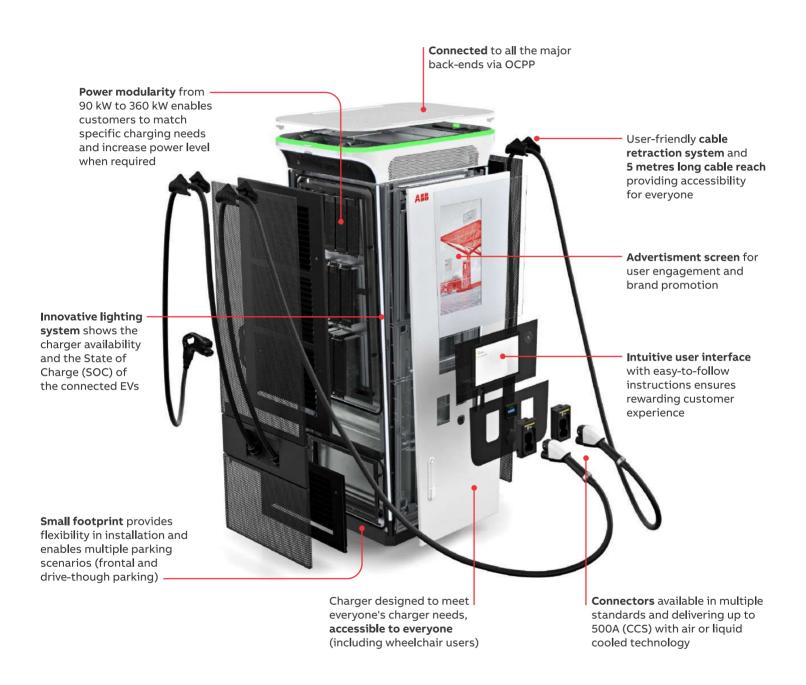
ABB follows the fast charging standards:

- 50 kW CHAdeMO Global
- 22-43 kW AC Global
- 50-350 kW CCS2 EU, US, South Korea, Australia
- · Tesla proprietary CHAdeMO adapter
- · GB/T China

Fast charging is paramount in making electric vehicles a success. Fast charging makes electric cars more useful because of the reassurance drivers get knowing they can quickly recharge, it eliminates range anxiety. It seems that car owners with fastcharge capable cars, with enough fast charging stations around them, feel capable of taking longer trips.

The Terra 360 all-in-one high-power charger

At a glance



CHARGING POWER

CCS charging up to 360 kW CHAdeMO charging up to 150 kW AC Type-2 up to 22 kW

POWER CONFIGURATIONS

360 / 240 / 180 / 120 kW (Upgradable with extra modules)

DIMENSIONS

Height 2200 mm Width 720 mm Depth 710 mm

Notes

