

Base station power supply converted to DC charging





Overview

How does an AC charging station work?

In an AC charging station, AC supply from power grid is supplied to electric vehicle batteries through the vehicle's On-board charger which converts AC into DC power. These onboard chargers are present inside the electric vehicle and are designed for lower kilowatts of power transfer.

What is the difference between AC and DC charging stations?

These onboard chargers are present inside the electric vehicle and are designed for lower kilowatts of power transfer. AC charging stations are slow charging stations and are the most widely used charging method. In DC charging stations, the AC to DC converter is present outside the electric vehicle and are known as Off board chargers.

What is a charging station?

A charging station, also known as Electric Vehicle Supply Equipment (EVSE) or Charging point is a part of Grid infrastructure and used for supplying electrical power to plug-in electric vehicles for charging battery packs.

What is a DC charging station?

AC Charging Station The DC charging station is a Level 3 charger which can cater for very high power level in the range of 120 to 240 kW. The L3 chargers typically charge batteries to 80% State of Charge (SOC) in under 30 minutes. To achieve such high power levels modular converters which can be stacked are used.



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Charger-converter

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