High-Power DC Chargers of Major EVSE Manufacturers: Specifications and Applications

Major Suppliers' Flagship Products

Capacities of top-notch chargers in the market

Company	Product	Capacity
ChargePoint	**Express Plus**	350kW
ABB	**Terra HP 360**	360kW
Tritium	**PK350**	350kW
Alpitronic	**HYC400**	400kW
EVBox	**Ultroniq**	350kW

Key Factors of High-Power Chargers

Important factors of DC High power chargers by major suppliers

The ChargePoint DC Charger (Express Plus) has a powerful 350kW power output and a number of ports, such as CCS1, CCS2, and CHAdeMO. It is suitable to be used to charge at gas stations, convenience shops, travel centers, and retail spaces. Its important features are:
1. Dynamic Power Management that allows a fixed maximum power output per station or lets the system dynamically manage the power distribution per station.
2. Remote Energy Management that manages output power via the ChargePoint Admin Portal, API, and Open ADR 2.0b VEN. Management.

The ABB DC Charger (Terra HP 360) can connect to CCS1, CCS2, and CHAdeMO and can charge at a powerful 360kW. It's a good choice for Commercial fleets (Delivery fleet depots, Taxi, EV fleet depots), Retails and Refueling stations.The differentiating features include: 1. Dynamic power allocation across outlets, with power modularity that adapts to meet the charging needs of multiple vehicles. 2. Innovative lighting system shows the charger availability and the State of Charge (SOC) of the connected EVs.□3. Eichrecht/PTB compliancy for AC and DC outlets.

The Tritium DC Charger (PK350) is made for large fleets and heavy commercial use. It has 350kW of peak power. It can connect to both CCS2 and CHAdeMO, which gives it a lot of flexibility. Its major uses are for Fleets (depots), Heavy commercial fleets, and several network operators. The important features are:
1. System designed to minimize the isolation points – the fewer isolation points, the less the loss. Patented liquid-cooled technology inside the user unit ensuring longevity of the power electronics and leading to high efficiency levels.
2. Data analytics and management that enable network operators to take advantage of data integration and data monetization to reduce total cost of ownership.

The Alpitronic DC Charger (HYC 400) works at 400kW and can connect to either CCS or CHAdeMO. It can be used to charge at places, such as at Public charging sites, en-route, and for e-buses and e-trucks. The important features are:
1. It's a full solution for a wide range of EV needs, owing to its feature of scalable and upgradable power, thanks to its hypercharger Power-Stack concept;□2. 100 kW power stacks with 50 kW granularity for more user dedicated power sharing.

The EVBox DC Charger (Ultroniq) has a charge rate of 350kW and accepts both CCS2 and CHAdeMO inputs. It is fit for use at petrol stations, fleet charging (buses and trucks) and proves great for short-stop places. Its salient features are:
1. Provides an exceptionally ergonomic user experience;
2. Fully reliable and made to last with a cooling unit, liquid cooled cables, and rugged high-impact housing.