

# Quick Charge Station



## Overview

- Battery Storage Integration
- DC power up to 50 kW
- 20 kW grid input power + 30 kW battery power
- 30 kWh battery capacity (other on request)
- Multistandard (CHAdeMO and CCS)



Battery Storage



Fast Charging



Communication & Management



Multi-standard

## QC45BATT

### DC plug-in charging systems



CCS



CHAdeMO

### Main features

- High efficiency: > 93%
- High power factor: 0.98 with half load
- TFT color display (for user interface and publicity)
- Network integration (OCPP or proprietary protocol)
- Built-in communications (3G; LAN; Wi-Fi)
- Simple plug & play installation
- Standalone or network integration
- Local and remote control and monitoring
- C4 corrosion protection
- Customizable

### Product description

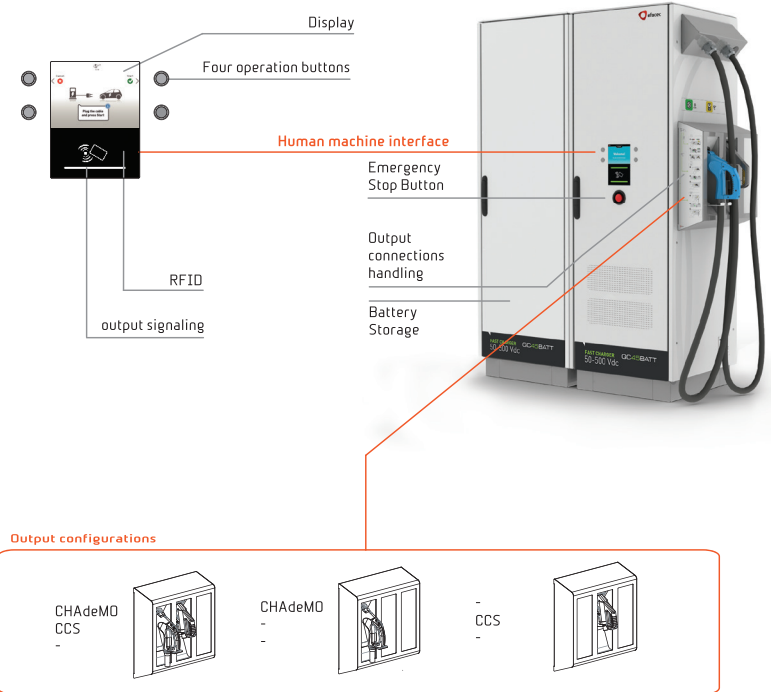
The **QC45BATT** is a Quick Charging station with a battery storage integration able to charge all EVs with CHAdeMO and CCS protocols.

To reduce the charging time, the **QC45BATT** is able to deliver power up to 50 kW. However, the power required from the grid will not be higher than 20 kW, thereby reducing costs to the charger's owner and adverse side effects caused in the grid.

The battery of the storage system has capacity to store enough energy for two or three consecutive charges, depending on the electric vehicle, and guarantee that the power supplied to the EV can achieve 50 kW. If the battery state of charge reaches a minimum value, the charger will always be able to deliver 20 kW until the battery is recharged.

Technical data		CE
<b>General Specifications</b>		
Phases / lines	3 phases + N + PE / 1 phase + N + PE	
Voltage & frequency	400/230 V ± 10 %; 50/60 Hz	
Nominal input current & power	32 A (three Phase) / 96 A (single Phase)	
Output Power	50 kW	
Efficiency	> 93 %	
Equipment	Multi-standard DC outputs (Mode-4)	
Communication with EV	JEVS G104 (CHAdeMO) IEC61851-23 PLC (CCS / Combo-2)	
DC Plugs	JEVS G105 (CHAdeMO) Combo T2 (CCS / Combo-2)	
Human Machine Interface	By default	
Display	6.4" TFT Color screen	
RFID system	Mifare (Classic, DesFire EV1) or others on request	
Communication	3G (GSM or CDMA)   LAN   Wi-Fi	
Communication Protocols	OCPP (1.5 / 1.6)	
Place of installation	Indoor/Outdoor	
Altitude	Up to 1000 m	
Protection degree	IP54	
Operating Temperature	-25 °C to 40 °C	
Humidity	5 % to 95 %	
Sound noise	<55 dB in all directions	
Dimensions (W x D x H)	600 x 600 x 1800 mm	
Weight	350 Kg	
<b>Battery Storage</b>		
Nominal Voltage	460 V	
Nominal battery's capacity	38 kWh	
Heating System	Yes	
Cooling System	Forced air	
Weight	675 Kg	
Dimensions (W x D x H)	600 x 800 x 1800 mm	

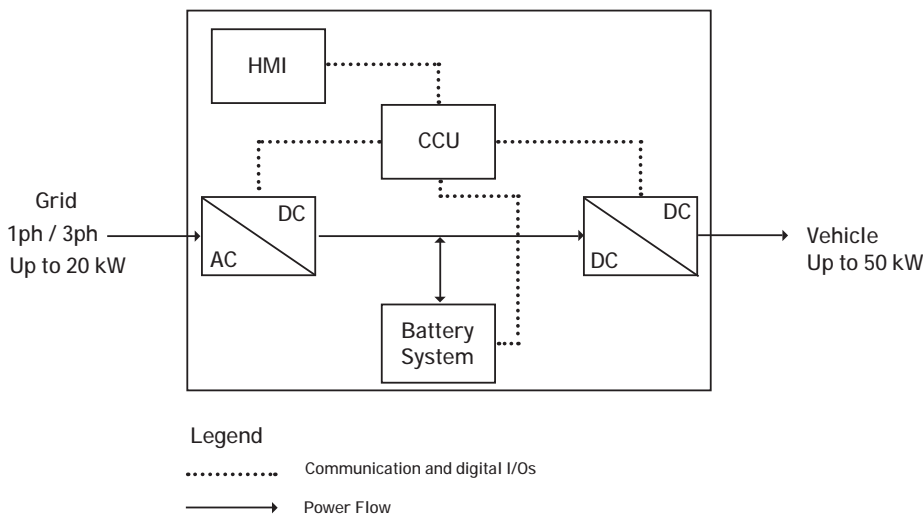
Configurations



Applications

- Whenever the grid power has limitations or power availability cost is high.

System Block Diagram



The QC45BATT is constituted by a AC/DC converter (AC/DC) compatible with single phase or 3 phase supply, a DC/DC converter (DC/DC), a battery system with BMS, a Human Machine Interface (HMI), a central control unit (CCU) the AC/DC provides galvanic isolation between grid and the combination of battery + DC/DC + EV.