



Buses Quick Charge Station

Overview

- Charge any CCS compatible vehicle
- Combo DC output (Mode-4)
- DC power up to 150 kW
- TFT color display
- Network integration (OCPP or proprietary protocol)
- Built-in communications (3G; LAN; Wi-Fi)
- Different power levels available (40, 90 and 150 kW)
- On board Module for CCS control available for bus manufacturers

Product description

Societies are facing a growing pressure to reduce CO₂ emissions and electric buses have arisen as a solution for a more sustainable form of transportation. An electric bus allows cities to go a step ahead on the sustainability path, and it is the right beginning for a greener way of transporting the world.

The **QCBus Charger** is a user-friendly and safe process to charge any CCS Compatible Bus with power levels ranging from 40 to 150 kW. Users only need to plug the charger to the vehicle and the charging process will start immediately. If authentication is required, the charger has an RFID card reader which will ensure only the right users have access to the charger. The TFT color display shows the charging details (time, energy and battery details). The charging cycle finishes by itself or it can be terminated by pressing the "Stop" button.

Using Efacec's more than 30 years of experience in power electronics technology, the **QCBus** charger system is safe, robust, durable, stable and environmentally friendly.

QC40B QC90B QC150B

DC plug-in charging system



CCS



| Technical data | QC40B | QC90B | QC150B |
|-------------------------------|--|---------------------|----------------------|
| Nominal Input | | | |
| Phases / lines | 3 phases + neutral + PE | | |
| Voltage & frequency | 400 ± 10% Vac; 50 Hz | | |
| Nominal input current & power | 68 A @ 48 kVA | 135 A @ 96 kVA | 225 A @ 160 kVA |
| Efficiency | > 95 % | | |
| Power factor | 0,98 | | |
| DC Output | | | |
| Voltage | 50 Vdc to 750 Vdc | | |
| Current | 0 to 60 A | 0 to 120 A | 0 to 200 A |
| General Specifications | | | |
| Equipment | Combo DC output (Mode-4) | | |
| Communication with EV | IEC61851-23 PLC (CCS / Combo-2) | | |
| DC Plugs | Combo T2 (CCS / Combo-2) | | |
| Human Machine Interface | By default | | |
| Display | 6,4" TFT Color screen | | |
| RFID system | Mifare (Classic, DesFire EV1) or others upon request | | |
| Communication | 3G (GSM or CDMA) LAN Wi-Fi | | |
| Communication Protocols | OCPP (1.2;1.5) and others | | |
| Place of installation | Indoor/Outdoor | | |
| Altitude | Up to 1000 m | | |
| Protection degree | IP54 IK10 | | |
| Operating Temperature | -25 °C to +50 °C | | |
| Optional Cold Option | -35 °C to +50 °C | | |
| Storage Temperature | -40 °C to +60 °C | | |
| Humidity | 5 % to 95 % | | |
| Dimensions (W x D x H) | 600 x 600 x 1800 mm | 800 x 800 x 1800 mm | 1000 x 800 x 1800 mm |



On board CCS controller

This unit can be used in the bus and assures interface between the charger and the vehicle CANbus, and controls the on board contactors.

