



## Quick Charge Station

### Overview

- Fast-charge any compatible vehicle
- 0 to 80% in less than 1 hour
- Multistandard (CHAdeMO, CCS and AC Type-2 compliant)
- DC and AC simultaneous charging
- TFT color display (for user interface and publicity)
- Network integration (OCPP or proprietary protocol)
- Built-in communications (3G; LAN; Wi-Fi)



Fast Charging



User-friendly



Communication &amp; Management



Multi-standard

### AC and DC plug-in charging systems



CCS



CHAdeMO

AC ~

### Main features

- Multiple standards
- Multiple outputs
- DC up to 25 kW
- AC up to 22 kVA
- High efficiency: > 94%
- High power factor: 0.98
- Simple plug&play installation
- Standalone or network integration
- Local and remote control and monitoring
- C4 corrosion protection

### Product description

The **QC20** is a Quick Charging station able to charge all EVs with CHAdeMO, CCS and AC Type-2 (fast) charging standard compliance with a maximum DC output power up to 25 kW.

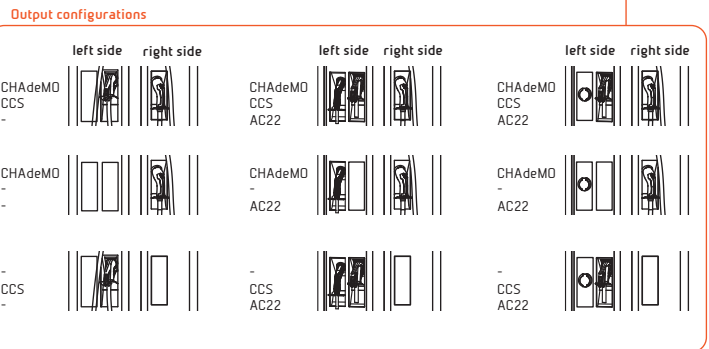
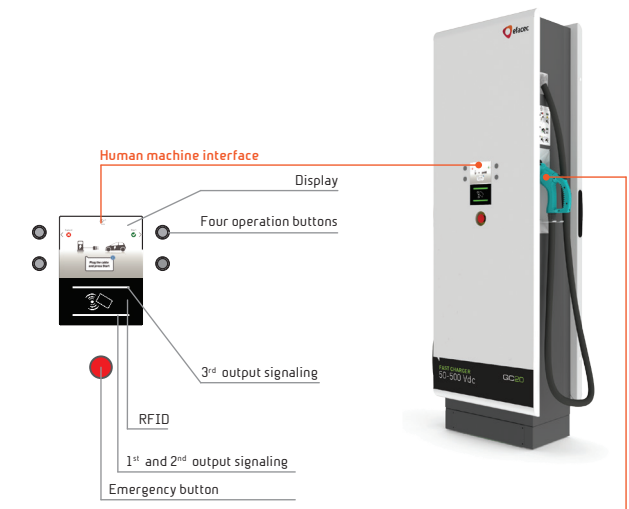
After user identification (if authentication is required), by simply choosing the charging standard compatible to your vehicle and coupling the charger's output plug to the EV, you will have a fast secured and proven charging process. The battery charging status is displayed and the charging cycle finishes by itself or can be terminated by an user command.

Different output options are available, like the basic single DC output, dual DC output or even triple DC+AC outputs, in a single cabinet or bundled with a wired charging interface kiosk.

The **QC20** includes Efacec's power electronics unique design, resulting in top specifications for DC fast charging. Higher power output with best power factor and efficiency.

| Technical data                            |   | CE |
|---|---|----|
| <b>AC Nominal Input for the DC Output</b> |   |    |
| Phases / lines                            | 3 phases + neutral + PE   |    |
| Voltage & frequency                       | 400 Vac ± 10 %; 50 Hz   |    |
| Nominal input current & power             | 32 A, 22 kVA  |    |
| Efficiency                                | > 94 %  |    |
| Power factor                              | 0,98  |    |
| <b>AC Nominal Input (Optional)</b>        |   |    |
| Phases / lines                            | 1P or 3P + neutral + PE   |    |
| Voltage & frequency                       | 400 Vac ± 10 %; 50 Hz   |    |
| Nominal input current & power             | Up to 32 A, 22 kVA  |    |
| <b>DC Output</b>                          |   |    |
| Voltage                                   | 50 Vdc to 500 Vdc   |    |
| Current                                   | 0 to 50 A   |    |
| Nominal Power (@ 400V)                    | Up to 20 kW   |    |
| Maximum power                             | 25 kW   |    |
| <b>AC Output (optional)</b>               |   |    |
| Voltage                                   | 230 V or 400 V  |    |
| Current                                   | from 16 A up to 32 A  |    |
| Nominal Power                             | from 3,7 kVA up to 22 kVA   |    |
| <b>General Specifications</b>             |   |    |
| Equipment                                 | Multi-standard DC outputs (Mode-4), with optional AC (Mode-3)             |    |
| Communication with EV                     | JEVS G104 (CHAdeMO)<br>IEC61851-23 PLC (CCS / Combo-2)<br>IEC61851-1 (AC) |    |
| DC Plugs                                  | JEVS G105 (CHAdeMO)<br>Combo T2 (CCS / Combo-2)                           |    |
| AC Plug (or socket)                       | IEC62196 Type-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 (1.2; 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 to +60 °C   |    |
| Humidity Range                            | 5 % to 95 %   |    |
| Noise Level                               | <55 dB in all directions  |    |
| Dimensions (W x D x H)                    | 630 x 457 x 1922 mm   |    |
| Weight                                    | 325 Kg  |    |

Configurations



Applications

- Restaurants
- Shopping centers
- EV Infrastructure and operators
- EV fleet (private and public)
- EV dealers and service providers

