Quick Charge Station

Overview

- Fast-charge any compatible vehicle
- 0 to 80% in less than 30 minutes
- Multistandard (CHAdeMO and CCS compliant)
- TFT color display (for user interface and publicity)
- Network integration (OCPP or proprietary protocol)
- Built-in communications (3G; LAN; Wi-Fi)
- Optional 2 piece configuration (kiosk/terminal)

Fast Charging | User Friendly | Communication & Management | Multi-standard

Product description

The **QC45** is a Quick Charging station able to charge all EVs with CHAdeMO and CCS charging compliance.
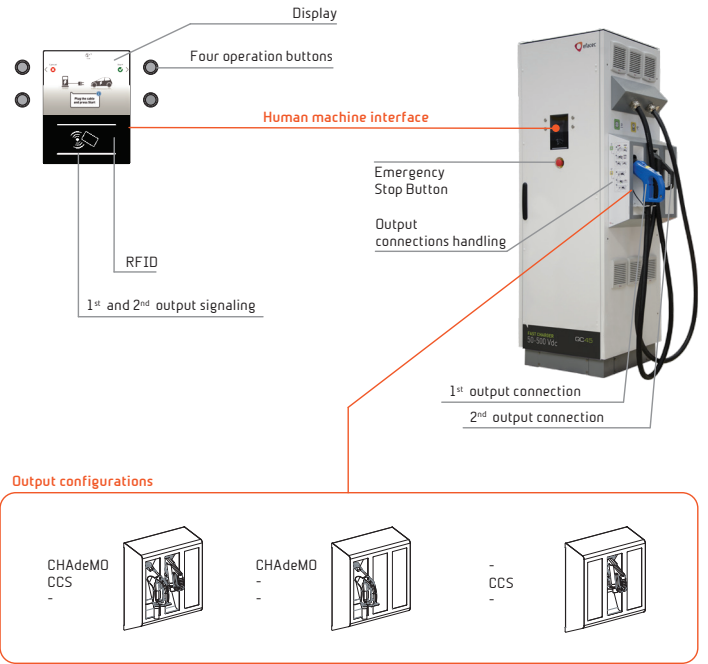
After user identification (if authentication is required), by simply choosing the charging standard compatible to your vehicle and coupling the charger's output plug to the EV, you will have a fast secured and proven charging process. The battery charging status is displayed and the charging cycle finishes by itself or can be terminated by an user command.

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

The **QC45** includes Efacec's power electronics unique design, resulting in top specifications for DC fast charging. Higher power output with best power factor and efficiency.

DC plug-in charging systems

CCS

CHΛdeMO

Main features

- Multiple standards
- Multiple outputs
- DC power up to 50 kW
- High efficiency: > 93%
- High power factor: 0.98
- Simple plug & play installation
- Standalone or network integration
- Local and remote control and monitoring
- C4 corrosion protection
- Customizable

FAST CHARGER
50-500 Vdc   QC45

efacec

Technical data — ETL

Technical data	ETL
AC Nominal Input for DC Output	
Phases / lines	3 phases + PE
Voltage & frequency	480 Vac ± 10 %; 60 Hz
Nominal input current & power	64 A, 50 kVA
Efficiency	> 93 %
Power factor	0,98
AC Nominal Input (Optional)	
NOT AVAILABLE	
DC Output	
Voltage	50 Vdc to 500 Vdc
Current	0 to 120 A
Nominal Power (@ 400V)	45 kW continuous / 50 kW peak
AC Output (optional)	
NOT AVAILABLE	
General Specifications	
Equipment	Multi-standard DC outputs (Mode-4)
Communication with EV	JEVS G104 (CHAdeMO) IEC61851-23 PLC (SAE / Type-1)
DC Plugs	JEVS G105 (CHAdeMO) Combo T1 (SAE / Type-1)
Human Machine Interface Display RFID system Communication	**By default** 6.4" TFT Color screen Mifare (Classic, DesFire EV1) or others on request 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 | NEMA 3R
Operating Temperature Optional Cold Option	-13 °F to +122 °F -31 °F to 122 °F
Storage Temperature	-40 to +140 °F
Humidity	5 % to 95 %
Sound noise	<55 dB in all directions
Dimensions (W x D x H)	23.6 x 23.6 x 70.9 inches
Weight	1323 pounds

Configurations

- Display
- Four operation buttons
- Human machine interface
- Emergency Stop Button
- Output connections handling
- RFID
- 1st and 2nd output signaling
- 1st output connection
- 2nd output connection

Output configurations

| CHAdeMO CCS - | CHAdeMO - - | - CCS - |

Applications

- Highways and national roads
- Fuel-stations (City and strategic locations)
- EV Infrastructure and operators
- EV fleet (private and public)
- EV dealers and service providers

efacec
Electric Mobility, S.A.

mod. CS283I1505B1