



Quick Charge Station

Overview

- Fast-charge any compatible vehicle
- 0 to 80% in less than 30 minutes
- 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)
- 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, CCS and AC Type-2 (fast) 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.

AC and DC plug-in charging systems



CCS



CHAdeMO

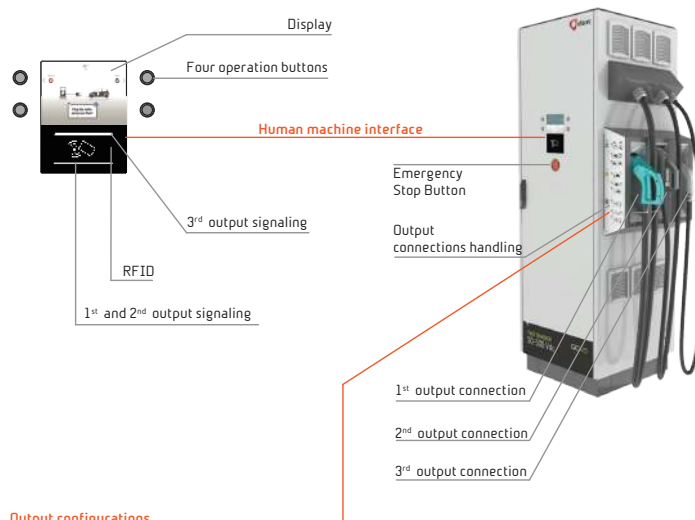
AC ~

Main features

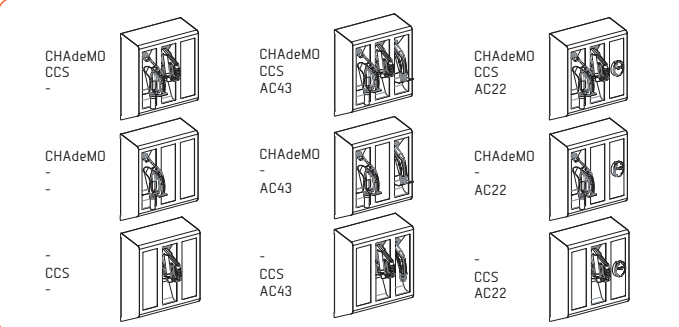
- Multiple standards
- Multiple outputs
- DC power up to 50 kW
- AC power up to 43 kVA
- High efficiency: > 93%
- High power factor: 0.98
- Simple plug & play installation
- Standalone or network integration
- Local and remote control and monitoring
- C4 corrosion protection
- Customizable

Technical data		CE
AC nominal Input for the DC Output		
Phases / lines	3 phases + neutral + PE	
Voltage & frequency	400 Vac ± 10 %; 50 Hz	
Nominal input current & power	73 A, 50 kVA	
Efficiency	> 93 %	
Power factor	0,98	
AC Nominal Input (Optional)		
Phases / lines	1P or 3P + neutral + PE	
Voltage & frequency	400 Vac ± 10 %; 50 Hz	
Nominal input current & power	Up to 63 A, 43 kVA	
DC Output		
Voltage	50 Vdc to 500 Vdc	
Current	0 to 120 A	
Nominal Power (@ 400V)	50 kW at 40 °C / 45 kW at 50 °C	
AC Output (optional)		
Voltage	230 V or 400 V	
Current	from 16 A up to 63 A	
Nominal Power	from 3,7 kVA up to 43 kVA	
General Specifications		
Equipment	Multi-standard DC outputs (Mode-4), with optional AC (Mode-3)	
Communication with EV	JEVS G104 (CHAdeMO) IEC61851-23 PLC (CCS / Combo-2) IEC61851-1 (AC)	
DC Plugs	JEVS G105 (CHAdeMO) Combo T2 (CCS / Combo-2)	
AC Plug (or socket)	IEC62196 Type-2	
Human Machine Interface	By default 6.4" TFT Color screen	
Display	Mifare (Classic, DesFire EV1) or others on request 3G (GSM or CDMA) LAN Wi-Fi	
RFID system		
Communication		
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	5 % to 95 %	
Sound noise	<55 dB in all directions	
Dimensions (W x D x H)	600 x 600 x 1800 mm	
Weight	600 Kg	

Configurations



Output configurations



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

