QC45

Quick Charge Station

Overview

- FAST-CHARGE ANY Compatible Vehicle
- 0 to 80% in less than 30 minutes
- MULTI-STANDARD (DCA - CHAdeMO; DCC - CCS/Combo; AC)
- Simultaneous charging of DC and AC
- Color Screen (for user interface and publicity)
- Network integration (OCPP or proprietary protocol)
- Built-In communications (3G; LAN; WIFI)
- Optional 2 piece Configuration (Kiosk/Terminal)

Fast Charging

User-friendly

Communication & Management

Multi-standard

AC and DC plug-in charging systems

CCS | CHAdeMO | AC ~

Product description

The Efacec EV DC Quick Charger can be used to charge all EVs with CHAdeMO, or CCS or AC Type-2 (fast) charging standard compliance.

The DC Quick Charger is a user-friendly and safe process to fast charge your vehicle. After user identification (authentication if required), by simply choosing the standard compatible to your vehicle and coupling the charger's output plug in the EV, you will have a secured and proven charging process. The battery charging status is displayed and the charging cycle finishes by itself or can be interrupted by user command. For AC, battery status is not possible.

Different 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 DC Quick Charger includes Efacec's power electronics unique design, resulting in top specifications for conductive DC fast charging. Higher power output with best power factor and efficiency.

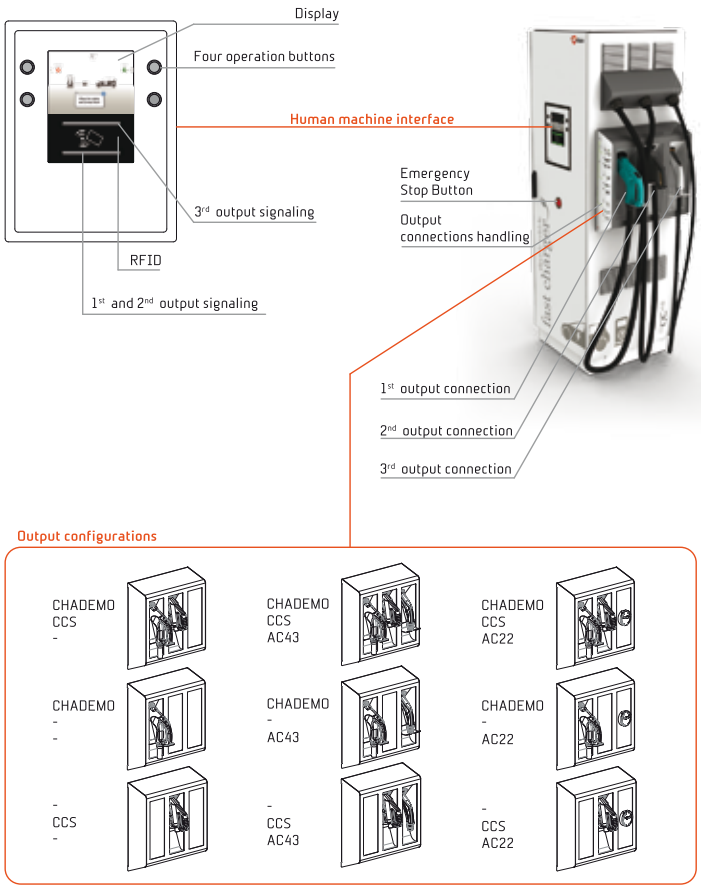
Main features

- Multiple standards
- Multiple outputs
- DC up to 50 kW
- AC up to 43 kW
- High efficiency: > 93%
- High power factor: 0.98
- Simple plug & play installation
- Standalone or network integrated charger
- Local and remote monitoring and control
- Customized personalization

efacec

Technical data	CE
Nominal Input	
Phases / lines	3 phases + neutral + PE
Voltage & Frequency	400 ± 10 % Vac; 50 or 60 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 ± 10 % Vac; 50 Hz
Max rated 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)	45 kW continuous / 50 kW peak
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 Display RFID system Communication	By default 6.4" TFT Color screen Mifare (Classic, DesFire EV1) or others on request 3G (GSM or CDMA) | LAN | WIFI
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 Optional Cold Option	-25 °C to +50 °C -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



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