Quick Charging Station

QC60, QC90, QC120

Overview

- Fast-charge up to 120kW
- Multi standard (CHAdeMO, CCS and AC Type-2 compliant)
- Simultaneous charging for all outputs
- Ready for PnC (Plug-n-charge)
- Noise reduction operative modes
- TFT colour display (for user interface and publicity)
- Network integration (OCPP or proprietary protocol)
- Built-in communications (4G; LAN; Wi-Fi)
- LMS integration

Product description

At Efacec, we anticipate breaking through solutions in electric mobility. Our Fast chargers from 60kW to 120kW are Quick Charging stations 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.
Diferent output options are available like CCS, Chademo or AC, with diferent combinations like CCS-CHA-AC.
With a fresh new design we expect to meet the needs of future high voltage EV'S.

AC and DC plug-in charging systems

CCS CHAdeMO AC ~

Main features

- Multiple standards
- Multiple outputs (up to 3 d.c. outputs)
- Simultaneous charging in all outputs
- Load balancing
- Ready for PnC
- AC power up to 43kVA
- High efficiency: > 95 %
- Noise reduction operation modes
- Compact and simple plug & play installation
- Standalone or network integration
- Local and remote control and monitoring
- C4 corrosion protection
- Customizable

Technical Information

Technical data	QC60	QC90	QC120
Phases / lines		3 Phase + Neutral (TN-C)	
Voltage & frequency		400 Vac ± 10 %; 50 Hz	
Nominal input current & power	DC: 91A / 63kVA DC + AC22: 123A / 85kVA DC + AC43: 154A / 106kVA	DC: 137A / 94kVA DC + AC22: 168A / 117kVA	DC: 182A / 126kVA DC + AC22: 214A / 148kVA
Efficiency (for d.c. charging)		>95 % (1)	
Power factor		0,98	
DC Output			
Voltage		150V to 920V	
Nominal Power (@ 400V)	60 kW	90kW	120kW
AC Output (optional)			
Voltage		230V or 400V	
Nominal Power	3,7kVA up to 43kVA	3,7kVA up to 22kVA	3,7kVA up to 22kVA
DC/AC Output configuration	AC | CCS | CHAdeMO AC | CCS | CCS	AC | CCS | CHAdeMO AC | CCS | CCS CCS | CCS | CHAdeMO	AC | CCS | CHAdeMO AC | CCS | CCS CCS | CCS | CHAdeMO
General Specifications			
Equipment		Multi-standard DC outputs (Mode-4), with optional AC (Mode-3)	
Communication with EV		JEVS G104 (CHAdeMO) IEC 61851-23 PLC (CCS / Combo-2) IEC 61851-1 (AC)	
DC Plugs		JEVS G105 (CHAdeMO) Combo T2 (CCS / Combo-2)	
AC Plug (or socket)		IEC 62196 Type-2	
Metering			
Metering		Mid Meter for AC and DC plugs (3)	
Eichrecht (Optional)		DC Meters	
Human Machine Interface		By default	
Display	6.4" TFT Color screen	7" TFT Touch color screen	7" TFT Touch color screen
Buttons		4x push buttons	
Emergency button (Optional)		Emergency button	
RFID system		Mifare (Classic, DesFire EV1) or others on request	
Payment system (Optional)		on request	
Led station indication		yes	
Communication		4G,3G,2G | LAN | Wi-Fi	
Communication Protocols		OCPP (1.5;1.6) and others	
High gain external antenna		yes	
Place of installation		Indoor/Outdoor	
Altitude		Up to 1000 m (4)	
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 % (2)	
Dimensions (W x D x H)		786 x 510 x 1978 mm	
Software update		Remote software update via OCPP or web portal	
Other Options			
Anti-graffiti paint		Under request	
Plug cable detection in stand by	-	Under request	Under request
Retrofit kit for 120 kW	-	Yes	-

(1) Peak
(2) No condensation
(3) Meter on AC Side
(4) For other installation conditions, please contact the Factory for more information.

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CHAdeMO

MOD. no code