

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.

Different 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 EVs.



AC and DC plug-in charging systems



CCS



CHAdeMO

AC ~

Main features

- Multiple standards
- Multiple outputs (up to 3 DC 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)	60kW	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	Mid Meter for AC and DC plugs (3)		
Metering	DC Meters		
Eichrecht (Optional)	By default		
Human Machine Interface			
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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