

Ultra Fast Charge Station



Overview

- Charge any compatible vehicle with CCS standard
- Output power up to 920 V
- Different power levels available (175 and 350 A)
- Combo DC output (Mode-4)
- TFT color display
- Network integration (OCPP or proprietary protocol)
- Built-in communications (3G; LAN; Wi-Fi)

☐ HV175 ☐ HV350

DC plug-in charging system



CCS

Main features

- Fits all CCS vehicles
- Customizable
- Mode-4 charging
- HV350 = 2 x HV175 for 350 A
- Liquid cooled cable for 350 A
- Indoor/Outdoor (IP54)

Applications

- Long-range EVs charging spots

Product description

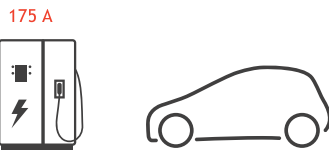
Focused on bringing new and innovative solutions to the EV charging market characterized by a growing trend for fast high-power chargers, Efacec developed a new and innovative solution that fits all features of this emerging market. The **HV175** is a High Power Ultra fast charging solution, able to supply up to 920 V and 350 A by connecting two **HV175** units to an user interface unit with adequate cable and connector. Connecting more **HV175** units to a mechanical connection allows higher currents as can be used by some heavy vehicles.

Using Efacec's more than 30 years of experience in power electronics technology, the **HV175** is the most powerful charging system, safe, robust, durable, stable and environmentally friendly.

Technical data		HV175	HV350
Nominal Input			
Phases / lines	3 phases + neutral + PE		
Voltage	400 Vac ± 10 %		
Frequency	50 Hz		
Nominal input current & power	248 A @ 172 kVA	2 x (248 A @ 172 kVA)	
Efficiency	> 95 % @ full power		
DC Output			
Voltage	920 Vdc		
Current	0 to 175 A	0 to 350 A	
Nominal Power (@920V)	163 kW	326 kW	
General Specifications			
Communication with EV	IEC61851-23 PLC (CCS / Combo-2)		
DC Plug	Combo T2 (CCS / Combo-2)	Combo T2 (CCS / Combo-2) liquid cooled	
Human machine Interface	By default		
Display	6.4" TFT Color screen		
RFID system (optional)	Mifare (Classic, DesFire EV1) or others upon request		
Communication	3G (GSM or CDMA) LAN Wi-Fi		
Communication Protocols	OCPP1.5. Others under request		
Place of installation	Indoor/Outdoor		
Altitude	Up to 1000 m		
Protection degree	IP54 IK10		
Operating temperature/optional cold option	-25 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)	1000 x 800 x 1800 mm	2 x (1000 x 800 x 1800 mm) + User interface unit	
Weight	1100kg	2 x (1100kg) + User interface unit	

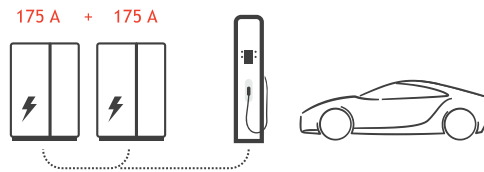
Output Configurations

Scenario 1



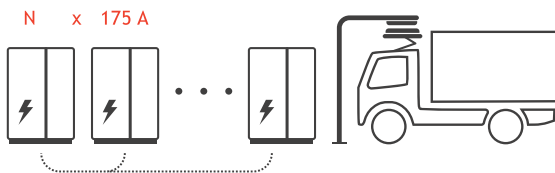
Direct connection of the HV175 to the electric vehicle.

Scenario 2



Two HV175 units, with a total output current of 350 A connected to an user interface unit equipped with a 350 A charging cable.

Scenario 3



Two or more HV175 units connected to a mechanical connection device.

