

Ultra Fast Charge Station





Overview

- Charge any compatible vehicle with CCS standard
- Output voltage up to 920 V
- Different power levels available (160 or 320 kW)
- Combo DC output (Mode-4) / Option CHAdeMO
- TFT color display
- Network integration (OCPP or proprietary protocol)
- Built-in communications (3G; LAN; Wi-Fi)

Available Models

HV160 HV175 HV350

DC plug-in charging system

CCS CHAdeMO

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 tp 320 kW 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.

Main features

- Fits all CCS and CHAdeMO vehicles
- Customizable
- Mode-4 charging
- HV350 = 2 x HV175
- Liquid cooled CCS cable
- Indoor/Outdoor (IP54/NEMA 3R)

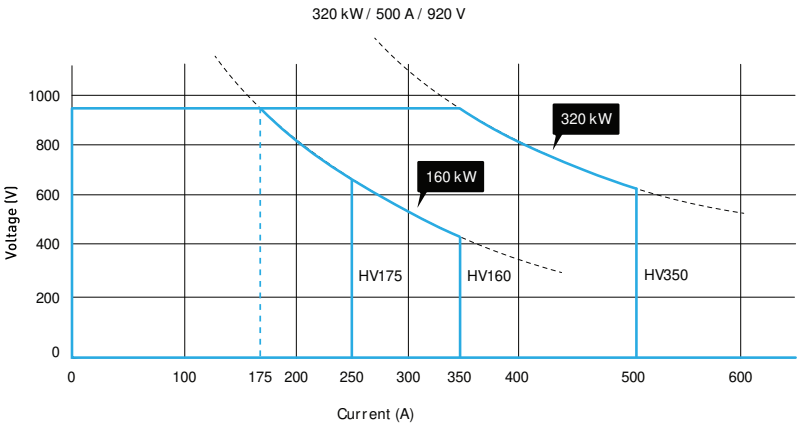
Applications

- Long-range EVs charging spots

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Technical data	HV160	HV175	HV350
Nominal Input			
Phases / lines		3 phases + PE	
Voltage		480 Vac ± 10 %	
Frequency		60 Hz	
Power Factor		0,98	
Nominal input current & power	210 A @ 172 kVA	210 A @ 172 kVA	2 x (210 A @ 172 kVA)
Efficiency		> 95 % @ full power	
DC Output			
Maximum Voltage	920 V	920 V	920 V
Maximum current	175 A 350 A up to 457 V	175 A 250 A up to 640 V	350 A 500 A up to 640 V
Nominal Power (@920V)	161 kW	161 kW	322 kW
General Specifications			
Communication with EV		IEC61851-23 PLC (CCS / Combo-1) and JEVS G104 (CHAdeMO)	
DC Plug		Combo T1 (SAE / Type 1) and JEVS G105 (CHAdeMO)	
Human machine Interface Display RFID system (optional) Communication Communication Protocols		By default 15.6” Mifare (Classic, DesFire EV1) or others upon request 3G (GSM or CDMA) | LAN | Wi-Fi OCPP1.5. Others under request	
Place of installation		Indoor/Outdoor	
Altitude		Up to 3280 ft	
Protection degree		NEMA 3R | Rainproof	
Operating temperature/optional cold option		-13 °F to +122 °F / -31 °C to +50 °C	
Storage temperature		-40 to +140 °F	
Humidity		5% to 95%	
Sound noise		<55 dB in all directions	
Dimensions (W x D x H)	40" x 32" x 75" + User interface unit (for current greater than 200 A)	40" x 32" x 75" inches + User interface unit (for current greater than 200 A)	2x (40" x 32" x 75")
Weight	2,204 pounds + user interface unit	2,204 pounds + user interface unit	2 x (2,204 pounds) + User interface unit
User Interface Unit			
Dimensions (W x D x H)		23.62" x 11.81" x 94.49"	
Weight		573 pounds	
Charging cable length		Inside:144.88 inches / outside:91.33 inches	

Output Characteristics



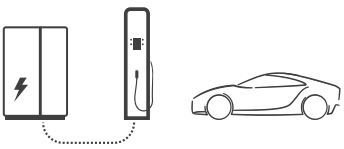
Output Configurations

Scenario 1



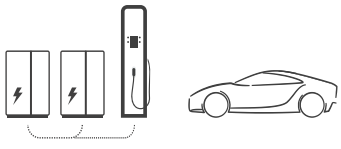
Direct connection of the **HV175** cable to the electric vehicle limited to 175 A due to the cable.

Scenario 2



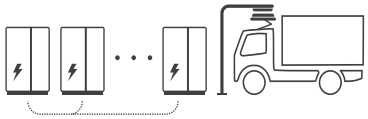
One **HV160** unit connected to an user interface unit

Scenario 3



Two **HV175** units, with a total output current of 350 A connected to an user interface un it equipped with a 350 A changing cable

Scenario 4



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

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