# 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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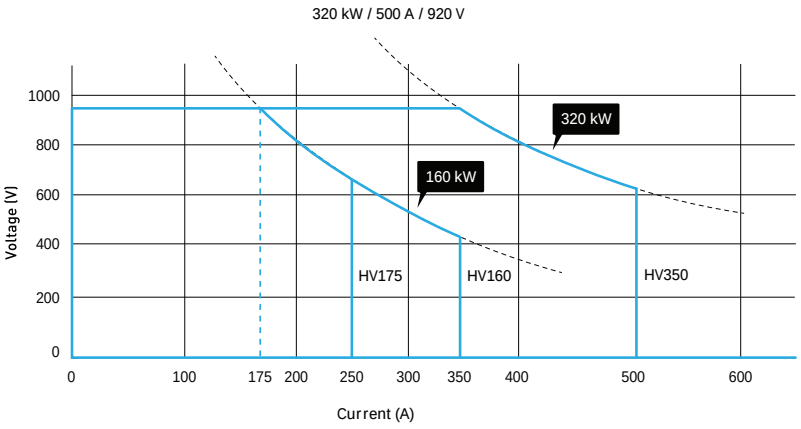
| Technical data | HV160 | HV175 | HV350 |
|---|---|---|---|
| **Nominal Input** | | | |
| **Phases / lines** | | 3 phases + PE | |
| **Voltage** | | 480 Vac ± 10 % | |
| **Frequency** | | 60 Hz | |
| **Power Factor** | | 0,98 | |
| **Nominal input current & power** | 210 A @ 172 kVA | 210 A @ 172 kVA | 2 x (210 A @ 172 kVA) |
| **Efficiency** | | > 95 % @ full power | |
| **DC Output** | | | |
| **Maximum Voltage** | 920 V | 920 V | 920 V |
| **Maximum current** | 175 A<br>350 A up to 457 V | 175 A<br>250 A up to 640 V | 350 A<br>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**<br>Display<br>RFID system (optional)<br>Communication<br>Communication Protocols | | **By default**<br>15.6”<br>Mifare (Classic, DesFire EV1) or others upon request<br>3G (GSM or CDMA) \| LAN \| Wi-Fi<br>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

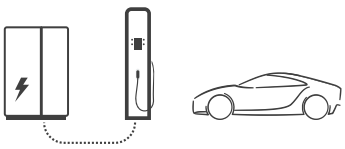



## Output Configurations

### Scenario 1

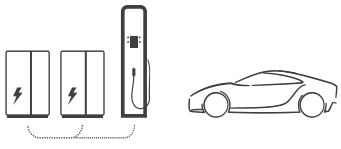
Direct connection of the **HV175** cable to the electric vehicle limited to 175 A due to the cable.

### Scenario 2



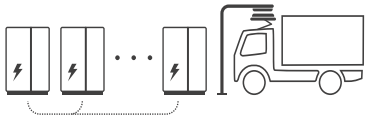
One **HV160** unit connected to an user interface unit

### 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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