

HV160 HV175 HV350

DC plug-in charging system





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)

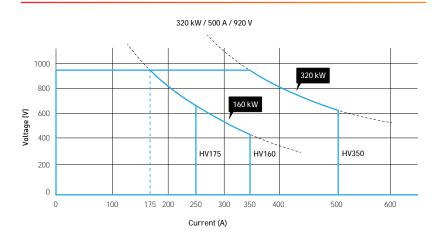
Applications

• Long-range EVs charging spots



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 un
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



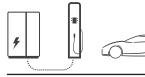
Output Configurations

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.







