



EB-HV350
Ultra-Fast Charging
PRODUCT DESCRIPTION

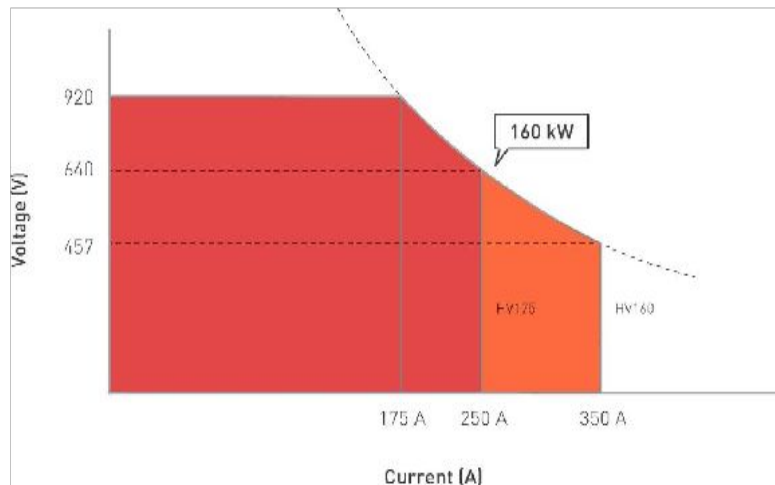


HV175/ 350 Description

The HV350 has two power modules, the HV175, which limits the current to 250 A maximum for voltages up to 640 Vdc. Above voltages of 640 Vdc, the current is limited to 175 A. Hence, with two HV175 cabinets in parallel, the resulting solution is called the **HV350** and is capable of a maximum current of 500 A for a limited amount of time (10 minutes) and a sustained current output of 350 A at 920 Vdc. The max current of 500 A @ <640 VDC is limited to 10 minutes due to constraints on the capacity of the cooling system for the CCS cable.

The HV350 is the best choice for delivering up to 320 kW, with a limit of 350 A or 500 A.

Due to the high current output of 350 A, this solution requires the addition of a liquid-cooled CCS cable and a remote dispenser/kiosk which will house the liquid cooling system.



We can say that the HV family equipment is "future proof", as it charges EVs currently in the market, with 400 - 500 Vdc batteries and also the near future EVs, which will charge at 800 - 1000 Vdc. Depending of the requirement for continuous power or not, all Efacec HV chargers will serve all types of EVs.

HV175/350 Technical data

Nominal Input	
Phases / lines	3 phases +neutral +PE
Voltage	480 V _{ac} ±10 %
Frequency	60 Hz
Nominal input current & power	210A @ 170 kVA (x2 for HV350)
Efficiency	>95 % @ full power
DC Output	
Voltage	200 to 920 V _{dc} nominal , 1000 V _{dc} maximum
Current	HV175 - 175A @ 920 V _{dc} / 250A @ 640 V _{dc} HV350 - 350A @ 920 V _{dc} / 500A @ 640 V _{dc}
Nominal Power	HV175 - 160 kW HV350 - 320 kW (350 kW for limited time)
General Specifications	
Communication with EV	IEC61851-23 PLC (CCS/ Combo 1 or 2)
DC Plug	Combo T1 or T2 (CCS/ Combo-1 or 2)
Human machine Interface	By default
Display	15" Color touch screen
RFID system (optional)	Mifare (Classic, DesFire EV1) or others
Communication	3G/4G (GSM or CDMA) LAN Wi-Fi
Communication Protocols	OCPP1.6. (Others under request)
Place of installation	Indoor/Outdoor
Altitude	Up to 1000 m
Protection degree	NEMA 3R
Operating temperature/ optional cold option	-35 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)	Cabinet - 40" x 32" x 75" high (x2 HV350) Premium Kiosk - 24" x 12" x 95" high
Weight	Cabinet - 2,420 lbs. (x2 for HV350) Premium Kiosk - 350 lbs.