

# SIEMENS

*Ingenuity for life*

## High Voltage Charging Solution

[siemens.co.uk/electromobility](https://www.siemens.co.uk/electromobility)

### Overview

- Ultra rapid next generation charging
- Charge any CCS compatible vehicle (CHAdeMO optional)
- Output voltage up to 920 V
- Modular power levels in 160kW increments (160 or 320 kW)
- Combo DC output (Mode-4) / Optional CHAdeMO
- TFT colour display
- Network integration (OCPP 2.0 as standard)
- Built-in communications (3G; LAN; Wi-Fi)

### Product description

Focused on bringing new and innovative solutions to the EV charging market characterised by a growing trend for fast high-power chargers, Siemens' solutions meet the needs of this emerging market. The **HV160** is a High Power Ultra Rapid charging solution able to supply up to 160kW per module via a common kiosk dispenser.

The HV series provides the most powerful charging system: safe, robust, durable, stable and environmentally friendly.

### Applications

- Urban and extra-urban charging hubs
- Ultra rapid charging in minutes offers attractive competition to liquid fuel.

### Available Models

HV160, HV350

### Main features

- Fits all CCS vehicles
- Optional CHAdeMO
- Customizable and modular in steps of 160kW
- Mode-4 charging
- Liquid cooled cable
- Indoor/Outdoor (IP54)

### DC plug-in charging system



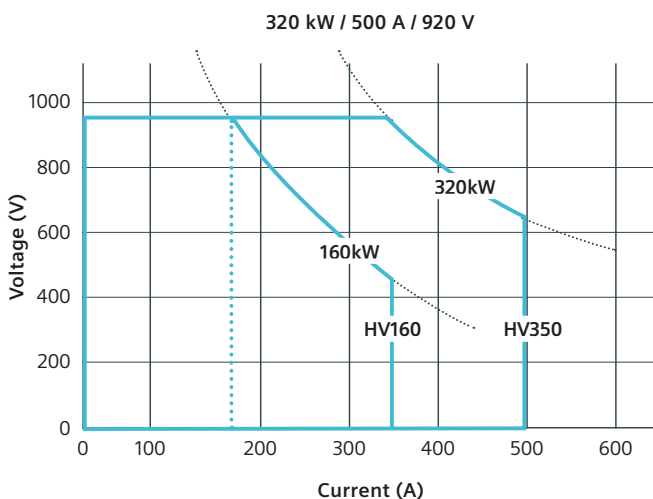
CCS



## Technical Information

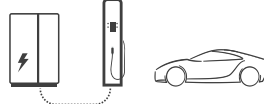
Technical data	HV160	HV350
<b>Nominal Input</b>		
Incoming AC requirements	3 Phase / 248A per phase	2 x 3 Phase / 248A per phase
Voltage	400V	
Frequency	50 Hz	
Power factor	0.98	
Nominal input current & power	248 A @ 172kVA	2x (248 A @ 172 kVA)
Efficiency	>95%	>95%
<b>DC Output</b>		
Maximum voltage	920 V	920V
Maximum current	175 A up to 920V 350 A up to 457 V	350 A up to 920V 500 A up to 640V
Nominal power	161 kW	322 kW
<b>General Specifications</b>		
Communication with EV	FEC61851-23 PLC	
Primary Connector	CCS500 Refrigerated	
Secondary Connector	CHAdeMO / CCS200	
Human machine Interface	Colour Screen with Physical Selection Buttons	
Display	15.6" TFT colour 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 1000m	
Protection degree	IP54 and IK10	
Operating temperature	-35 C to +50 C	
Storage temperature	-40 C to +60 C	
Humidity	5% to 95%	
Sound noise	<55 dB in all directions	
Dimensions (W x D x H)	(1000 x 800 x 1800mm) + kiosk	2x (1000 x 800 x 1800mm) + kiosk
Weight	1100kg + kiosk	2x (1100kg) + kiosk
<b>Kiosk</b>		
Dimensions (W x D x H)	600 x 300 x 2400mm	
Weight	260 Kg	
Charging cable length	Inside: 3.68 m / Outside: 2.32m	

## Output Characteristics



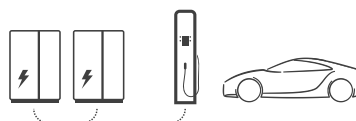
## Output Configurations

### Scenario 2



One **HV160** unit connected to a kiosk.

### Scenario 2



Two **HV175** units, with a total output current of 350 A connected to kiosk equipped with a 350 A charging cable.