

HVC200 | HVC300 | HVC360

# Distributed Power for Heavy-Duty Fleets



Reliable  
Performance

**360 kW**

Distributed Power

Simultaneous  
Charging

**$\leq 4$**

Dispensers in Parallel

Flexible Site  
Setup

**$\leq 150$  m**

Between Cabinet and  
Dispenser

# Power Specification

## DC Output:

Output power shared between 1 - 4 outlets:  
Configurable as 200 kW, 300 kW, or 360 kW  
Dynamic Power Sharing (granularity):  
**HVC200:** 50 kW | **HVC300:** 75 kW | **HVC360:** 90 kW

Output current (peak): **HVC200:** 285 A at 700 V DC, 250 A at 800 V DC  
**HVC300:** 430 A at 700 V DC, 375 A at 800 V DC  
**HVC360:** 500 A at 720 V DC, 450 A at 800 V DC

Output voltage: 150 - 940 V  
Configuration of outlets: can be connected to 1 - 4 dispensers  
Power conversion efficiency: up to 96%  
Standby power: 130 W

## AC Input:

Nominal voltage: (CE): 400 Vac ( $\pm 10\%$ ) (NA): 480 Vac ( $\pm 10\%$ )  
Nominal input current (RMS): **HVC200:** (CE): 315 A (NA): 262 A  
**HVC300:** (CE): 470 A (NA): 392 A | **HVC360:** (CE): 560 A (NA): 470 A

AC power rating: **HVC200:** (CE): 218 kVA (NA): 218 kVA  
**HVC300:** (CE): 326 kVA (NA): 326 kVA  
**HVC360:** (CE): 390 kVA (NA): 391 kVA

Frequency: (CE): 50 Hz ( $\pm 4\%$ ) (NA): 60 Hz ( $\pm 4\%$ )  
Earthing systems: TN-C, TN-C-S, TN-S, TT  
Inlet cable size: 3P + PE max.: 240 mm<sup>2</sup>/500 MCM AWG

Power factor:  $\geq 0.98$  (Output power  $\geq 10$  kW)  
Total Harmonic Distortion (THD):  $< 5\%$   
Overvoltage category: III  
SPD: Type 2  
SCCR: (CE): 25 kA (NA): 65 kA

# System Specification

## Operating Conditions:

Operating from  $-30^{\circ}\text{C}$  to  $55^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$  to  $131^{\circ}\text{F}$ ) with derating  
Storage from  $5^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  ( $41^{\circ}\text{F}$  to  $104^{\circ}\text{F}$ ), IEC 60721-3-2

Altitude: up to 2000 m (6562 ft)  
Humidity: up to 95%, non-condensing

Impact resistance: IK10  
IP rating: IP54

Noise emission:  
61 dB(A) at 1 m front side,  $20^{\circ}\text{C}$  ( $68^{\circ}\text{F}$ ), full power

Intended use: indoor and outdoor  
Mounting options: floor mounted  
Environment pollution degree: Class 3 (outside), Class 2 (inside)

## Form Factor:

Dimensions (H x W x D): 2180 x 1170 x 770 mm (85.8 x 46.1 x 30.3 in)  
Weight: **HVC200:** 830 kg (1830 lbs) | **HVC300:** 890 kg (1962 lbs)  
**HVC360:** 950 kg (2094 lbs)

Enclosure type: AISI 430 Stainless steel  
Corrosion resistance: C5-H, ISO 12944

# Customer Interface

<b>Charging Interface Options:</b>	Connector based (CCS1/2), Panto Down and Panto Up
<b>Lighting:</b>	4 RGB LEDs, 1 per outlet
<b>Emergency Button:</b>	External EMG button (optional)
<b>Service Access:</b>	Front door
<b>Remote Management:</b>	Access control, configuration, diagnostics, software updates <sup>1</sup>

## Electrical Connection (Cabinet - Dispenser)

<b>DC Power Cable:</b>	(CE): 2 or 4 x 185 mm <sup>2</sup> (max.) (NA): 2 or 4 x 350 MCM AWG (max.)
<b>Auxiliary AC Supply from Cabinet:</b>	(CE): 230 V AC (3 x 4 mm <sup>2</sup> ) (NA): 110 V AC (3 x 12 AWG)
<b>Interlock Cables:</b>	(CE): 2 x 2 x 0.75 mm <sup>2</sup> + shield (NA): 2 x 2 x AWG18 + shield
<b>Distance &amp; Communication:</b>	(CE): Ethernet (max. 100 m), Fiber optional (max. 150 m) (NA): Fiber (max. 492 ft)

## Standards & Compliance

<b>Safety Standards:</b>	IEC 61851-1 ed 3, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, UL 2202, CSA 22.2
<b>Metering:</b>	(CE): Eichrecht (in development) (NA): CTEP/NTEP (in development)
<b>EMC:</b>	Standard: EMC-Class A Conducted and Radiated, IEC 61851-21-2
<b>Electrical Safety:</b>	(CE): IEC 61439-7 (NA): NEC (NFPA 70)
<b>Manufactured:</b>	USA & Europe
<b>Network Connections:</b>	3G/4G, Ethernet (RJ45)
<b>OCPP:</b>	OCPP 1.6 JSON, OCPP 2.0.1 (in development)
<b>Vehicle Communication Protocol:</b>	DIN 70121, ISO/IEC 15118 series ed 1 with EIM, Autocharge, OppCharge, J3105-1 ed 1 and ed 2
<b>Additional Standards:</b>	Cabinet IP rating according to IEC 60529: 1989+AMD2: 2013+COR1: 2019
<b>Expected Lifespan:</b>	10 years <sup>2</sup>

<sup>1</sup> Subject to Service Package coverage

<sup>2</sup> Subject to Service Package coverage, potential refurbishment, and environmental operating conditions including proximity to sea water, conductive dust, and condensing humidity. Under certain conditions and for certain models this can be extended to 15 years.



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