

## DATA SHEET

# HVC360 $\ensuremath{\mathbb{N}\text{A}}$ charging solution

The power to make a difference



The HVC360 is specially designed for heavy duty fleets, such as buses or trucks, delivering up to 360 kW of continuous charging power. This ultra compact power cabinet supports the connection of up to four charging stations at a distance of up to 150 m (500 ft). The HVC360 supports all charging interfaces simultaneously, from CCS to pantograph, offering ultimate flexibility for any site layout or use case. The HVC360 is available with Buy America Compliance.



Technical specifications						
	HVC200-2D	HVC200-4D	HVC300-2D	HVC300-4D	HVC360-2D	HVC360-4D
Charging interface compatibility						
HVC Depot box	Yes	Yes	Yes	Yes	Yes	Yes
HVC Depot box dual outlet	Yes	Yes	Yes	Yes	Yes	Yes
HVC CCS control box	Yes	Yes	Yes	Yes	Yes	Yes
HVC Cable retractor	Yes	Yes	Yes	Yes	Yes	Yes
HVC 400A Pantograph Kit	Yes	Yes	Yes	Yes	Yes	Yes
Charging methods						
Parallel charging	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic charging	Yes	Yes	Yes	Yes	Yes	Yes
Product information						
DC output power rating (per cabinet)	200 kW	200 kW	300 kW	300 kW	360 kW	360 kW
DC output voltage (per Cabinet)	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V
DC output current (per Cabinet) (1)	285 A	285 A	430 A	430 A	500 A	500 A
DC output power rating (max per outlet)	200 kW	200 kW	300 kW	300 kW	360 kW	360 kW
DC output voltage (per outlet)	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V
DC output current (per outlet) max (1)	285 A	285 A	430 A	430 A	500 A	500 A
Input voltage range	480Y/277 VAC +/- 10%, 3-ph 60 Hz		480Y/277 VAC +/- 10%, 3-ph 60 Hz		480Y/277 VAC +/- 10%, 3-ph 60 Hz	
Input AC connection	L1, L2, L3, GND (no neutral)		L1, L2, L3, GND (no neutral)		L1, L2, L3, GND (no neutral)	
Input AC Current / Power	262 A; 218 kVA	262 A; 218 kVA	392 A; 326 kVA	392 A; 326 kVA	470 A; 391 kVA	470 A; 391 kVA
Recommended upstream circuit breaker(s)	350 A or 300	A (100% rated)	500 A or 400 A	(100% rated)	600 A or 500	A (100% rated)
Power factor (2)	0.97	0.97	0.97	0.97	0.97	0.97
Current THD*	IEEE 519 Compliant; <8%; option for 5%		IEEE 519 Compliant; <8%; option for 5%		IEEE 519 Compliant; <8%; option for 5%	
Short circuit current rating	25 kA; 65 kA optional		25 kA; 65 kA optional		25 kA; 65 kA optional	
Efficiency	94-96%	94-96%	94-96%	94-96%	94-96%	94-96%
Distance between charger & charging interface	100 m standard; long dista	up to 150 m with nce option	100 m standard; long dista	up to 150 m with nce option	100 m standard; up to 150 m with long distance option	
General characteristics						
Enclosure rating	NEMA 3R (IP-54 and IK-10)		NEMA 3R (IP-54 and IK-10)		NEMA 3R (IP-54 and IK-10)	
Enclosure type	Stainless steel		Stainless steel		Stainless steel	
Operational attitude	Up to 2000 m		Up to 2000 m		Up to 2000 m	
Operation temperature range (3)	-35°C to +55°C		-35°C to +55°C		-35°C to +55°C	
Recommended storage conditions	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)		-10 °C to +70 °C / 14 °F to +158 °C (dry environment)		-10 °C to +70 °C / 14 °F to +158 °C (dry environment)	
Humidity	5% to 95%, non-condensing		5% to 95%, non-condensing		5% to 95%, non-condensing	
Dimensions (H x W x D)	2180 x 1170 x 770 mm (85.8" x 46.1" x 30.3")		2180 x 1170 x 770 mm (85.8" x 46.1" x 30.3")		2180 x 1170 x 770 mm (85.8" x 46.1" x 30.3")	
Mass	830 kg / 1830 lbs		890 kg / 1962 lbs		950 kg / 2094 lbs	
Color	RAL 9002		RAL 9002		RAL 9002	
User interface						
Connectivity	Internet access via 4G / 3G / Ethernet		Internet access via 4G / 3G / Ethernet		Internet access via 4G / 3G / Ethernet	
Communication protocols	OCPP 1.6J		OCPP 1.6J		OCPP 1.6J	
LED	RGD LED on the cl	harger, 1 per outlet	RGD LED on the ch	harger, 1 per outlet	RGD LED on the charger, 1 per outlet	
Configuration						
Software update	Over-the-air updates via ABB E-mobility web portal, OCPP 1.6					
Control and configuration	ABB E-mobility web portal, on-board service portal, OCPP 1.6					
Certification and standards						
Charging system	IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000					
Communication to the EV	DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM					
Communication to the backend	OCPP 1.6 JSON					
Electro-Magnetic Compatibility	Standard: EMC-Class A Conducted and Radiated; Optional: EMC-Class B Conducted with external filter					
Compliance	CSA No. 107.1-16 and UL 2202 certified by TUV; SAE J3105-1; ISO 15118 and BA Rule 49 CFR Part 661.5 (optional)					

(1) Maximum output current could be limited by the charging interface

(2) Power factor at Output power  $\geq 10 \; \text{kW}$ 

(3) Measured according to IEC 62196-1, current rating and duration at higher temperatures is highly dependent on the charging interface and vehicle inlet.

(4) De-rating is dependent on multiple variables such as charging interface (cable/pantograph), vehicle inlet, temperature and duration. This can only be properly calculated on a system level.

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