





HVC360

360-degree solution for fleets

ABB E-mobility

We electrify mobility

ABB E-mobility's charging solutions simplify electrification of commercial and public fleets, providing a seamless integration into existing infrastructure, as well as a smooth charging experience.

We enable predictable charging operations and business continuity, including uptime commitment as well as leading service and maintenance organization.

With over 1 million chargers delivered globally and several successful OEM collaborations, ABB E-mobility is a world leader in EV charging solutions, guiding your fleet to a fully electrified future.

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HVC360

Delivering a 360-degree solution for fleets

Specifically designed for large vehicles and heavy-duty applications, the HVC360 provides fleet owners and operators with a continuously high power supply for reliable and predictable charging operations. In combination with our industry-leading service agreements and fleet charger management system InControl, the HVC360 power cabinet becomes a 360-degree solution for fleet professionals.

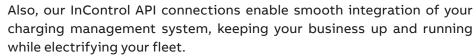
Smart energy management significantly reduces the total cost of ownership (TCO) while the cutting-edge split system design provides the most flexible set-up for fleet electrification. The solution easily integrates into existing facility hassle-free and provides the end-user with a seamless charging experience.

This best-in-class power density charging solution is ideal for fleet operators seeking maximum flexibility and reliability in their charging operations.



Seamlessness

Adapt as your fleet and infrastructure requirements evolve. The future-proof ABB E-mobility's HVC360 comes with an intuitive and robust design for a seamless end-user experience, and offers hassle-free integration into existing infrastructure.







Flexibility

ABB E-mobility's HVC360 provides installation flexibility, works with all dispensers, and supports up to four dispensers at the same time, providing fleet professionals with a highly flexible setup for fleet electrification. The power cabinet is configurable and scaleable, allowing over-the-air updates at any time. The HVC's cutting-edge split system design also allows the dispensers to be installed up to 150 meters from the power cabinet.

Efficiency (TCO)

The HVC360 provides long maximum power charging sessions with a continuous power output of up to 360 kW. It supports parallel charging, dynamic power sharing, and pre-conditioning for vehicles, even with multibrand fleets. Its dynamic power sharing function enables maximum efficiency when splitting the power over up to 4 dispensers while the advanced pre-conditioning functionality provides a steady supply of low current to avoid standby mode. Furthermore, the InControl charger management system significantly reduces your TCO with smart energy management.





Reliability

The HVC360 is especially designed for large vehicles and heavy-duty applications providing a continuously high-power supply for fleet charging operations. In addition to our industry-leading service offering, the ABB E-mobility 97% uptime commitment ensure your charging operation's reliability and predictability while maintaining business continuity.

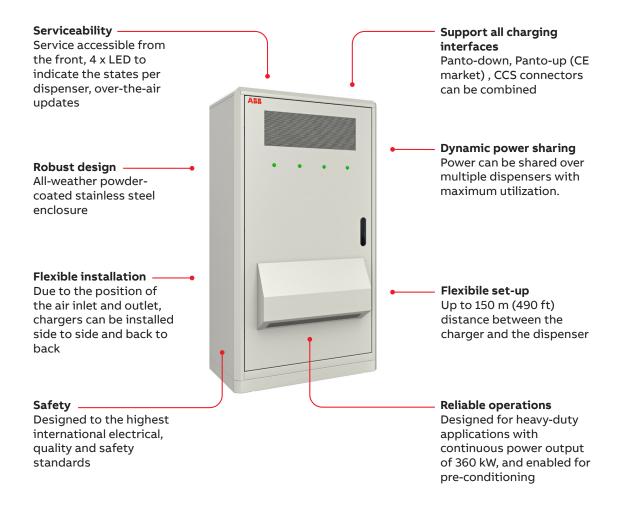


HVC360

The power to make a difference

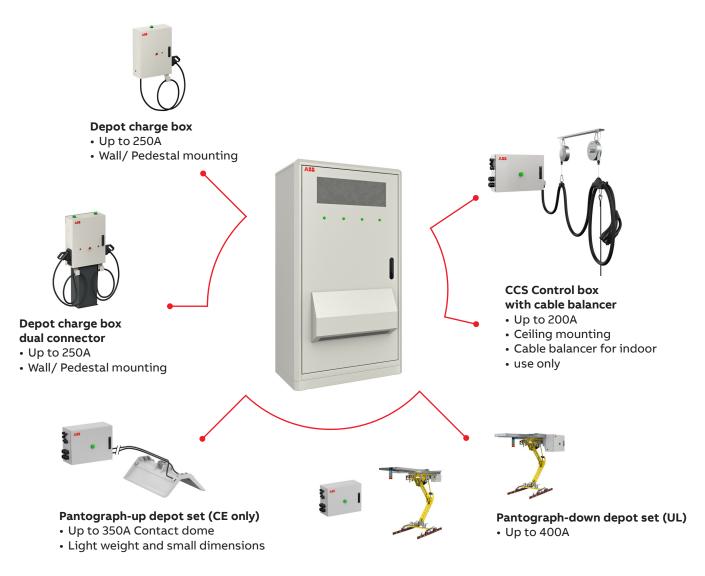
Offering a best-in-class power density with remarkable power for its footprint, the HVC360 delivers up to 360 KW of charging power. It enables up to four vehicles to be charged simultaneously, with up to 150 meters of distance between the power cabinet and each dispenser.

Supporting all dispensers simultaneously, from CCS to pantograph, its compact design allows installation back-to-back, side-to-side, or along a wall. High reliability and continuously high output power make this power cabinet the perfect foundation of your fleet's charging infrastructure.



Mix and match any dispenser to one power cabinet

The HVC360 power cabinet unlocks freedom in site layout by enabling the connection of up to four dispensers to one power cabinet. Its innovative flexibility allows them to be mixed and matched to better suit and optimize new or existing site constraints.



Pantograph-down depot set (CE)

• Up to 400A

Charging strategies

Smart solution for improved Total Cost of Ownership

HVC360 ensures your site's power hardware matches your operation's charging requirements. The dynamic power sharing strategy makes your charging more cost-effective, and give you maximum flexibility on site by splitting 360 kW on up to four vehicles at the same time.

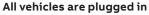
Static HVC

The power delivered by the power cabinet is equally split over the 4 dispensers. The charging power per dispenser will be the same whether there is one or more vehicles being charged at the same time.

Charging order

Only vehicle 1 is plugged in, the three other charging posts are free

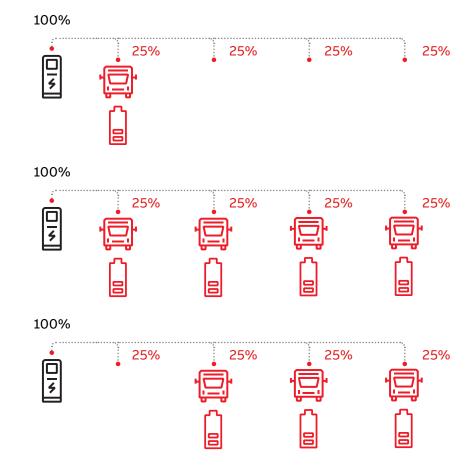
Vehicle 1 gets 25% of the power delivered by the power cabinet.



Each vehicle gets 25% of the power delivered by the power cabinet.

A vehicle is fully charged

The three remaining vehicles each get 25% of the power delivered by the power cabinet.



Dynamic: Share+ *

The power delivered to a vehicle depends on the number of vehicles plugged. If one or two vehicles are plugged in, the power delivered per vehicle will be half of the power available from the power cabinet.

If more than two vehicles are plugged in, the power delivered per dispenser will be a quarter of the power available from the power cabinet.

Charging order

Only vehicle 1 is plugged in alone, or vehicle 2 is plugged in too

They each get 50% of the power delivered by the power cabinet.

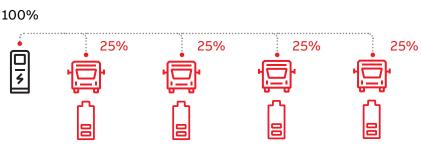
100%

100%

50%

Vehicle 3 is now plugged in, then vehicle 4

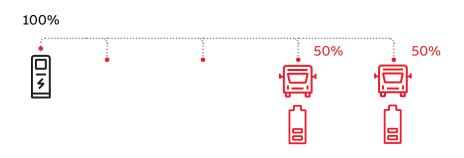
The four vehicles each get 25% of the power delivered by the power cabinet.



50%

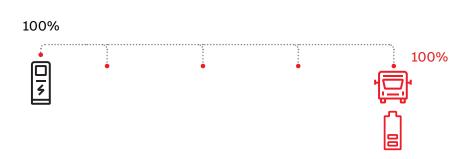
Vehicle 1 and 2 are fully charged and go back to operation

Vehicle 3 and vehicle 4 now get 50% of the power delivered by the power cabinet.



Vehicle 3 charging session is over too

Vehicle 4 get 100% of the power delivered by the power cabinet.



Depot charge box

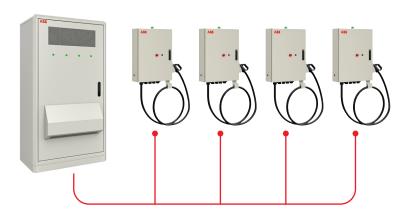
The small footprint dispenser, wall or pedestal mounted

The depot charge boxes are designed to charge larger depot-based fleets, and fit several site layouts.

Each HVC multi-dispenser power cabinet can be connected to 2 or 4 depot charge boxes, delivering 50-180 kW per vehicle.

- · High uptime: proven robust design and technology
- The wide charging power range and number of outlets enable shorter or longer sessions to be planned in alignment with the lowest energy costs
- Space-saving: wall or pedestal mounted.









Depot charge box dual outlet

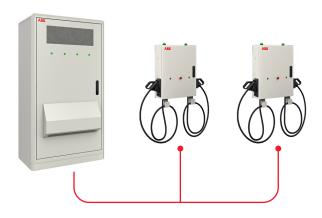
Even more space saving and flexible dispenser

Designed with two connectors, this solution reduces the use of depot charge boxes and saves space around the vehicle.

Each new HVC multi-dispenser power cabinet can be connected to one or two depot charge boxes dual connector, delivering 50-180 kW per vehicle.

- Space-saving design
- Same footprint as depot charge box single connector
- Limited investment: less installation work required, reducing cost.









CCS control box and cable balancer

Overhead dispenser with CCS connectors

This dispenser is designed for overhead constructions like roofs, canopies, and truss structures. It is a perfect solution for site layouts with a shortage of space around the vehicles. Its reliably designed cable balancer prevents the cable from drooping or lying on the ground. When in use, the cable can be extended from the ceiling to connect to the vehicle's inlet, and then safely retracted when not in use.

Cable balancer*

- Easy to install
- Easy to maintain
- Easy to use: available for different cable lengths.
- * For product availability and information, please contact your ABB E-mobility representative.







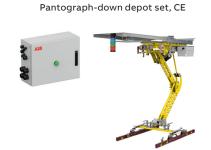


Pantograph-down depot set, and Pantograph-up depot set

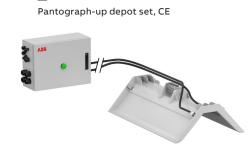
Installed on the infrastructure or on the vehicle

ABB E-mobility offers an ideal solution for charging electric buses equipped with a vehicle-mounted pantograph (panto-up, CE market only) or an inverted pantograph (panto-down) positioned over the electric bus, on the infrastricture. Pantographs can easily be integrated into existing operations and bus depots, ensuring zero-emission public transport.

- Safe and reliable operation: RFID* pairing technology (for panto-down)
- Optimum interface: remote diagnostics and management tools
- Flexible: one charger can serve multiple vehicle types and brands.
- * For more details, please refer to the technical specification pages.











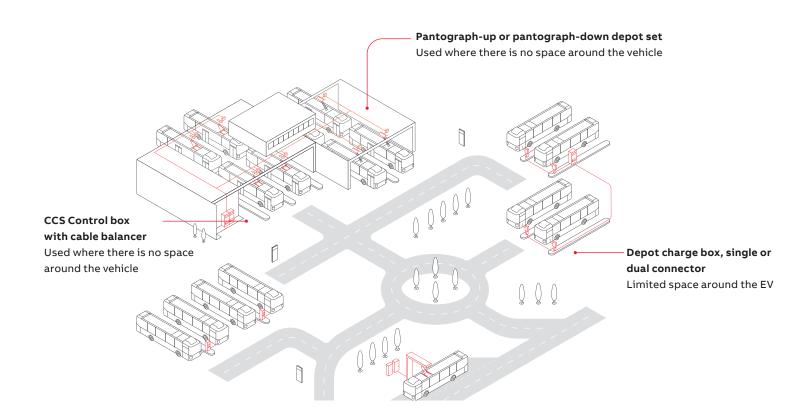
Bus depot use cases

HVC360 to charge fleet overnight

Depot charging

Every bus in a fleet will have to return to a depot for a few hours, and this is the perfect time to charge the vehicle with a lower charging power.

Energy management solution offers various charging strategies for sharing a site's available power, while monitoring and controlling energy consumption to keep costs within set limits.



Discover our ABB E-mobility charging solutions for Electric bus fleets



Logistic depot use cases

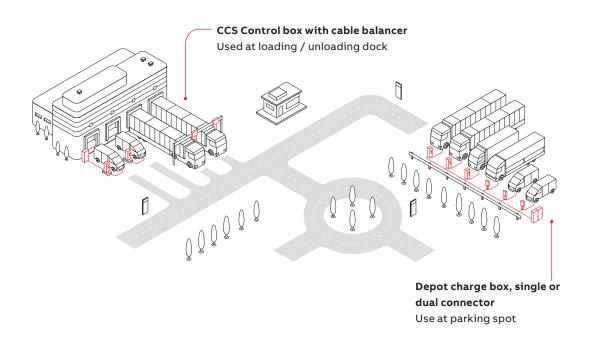
HVC360 for fast or long charging sessions

Charging at the loading/unloading dock

Electric trucks can be charged while they are being loaded or unloaded at the loading dock, optimizing truck availability by limiting additional charging time. Overhead chargers require less space around the vehicle, facilitating the driver's maneuvers.

Charging at depot parking

Electric trucks that have short daily operating cycles often rely on a long charging session at parking breaks or overnight when lower power can be used to charge the vehicles. The charging power is spread out over several hours while the vehicle is parked, reducing energy consumption and grid connection costs.



Discover our ABB E-mobility charging solutions for Middle mile logistics fleets



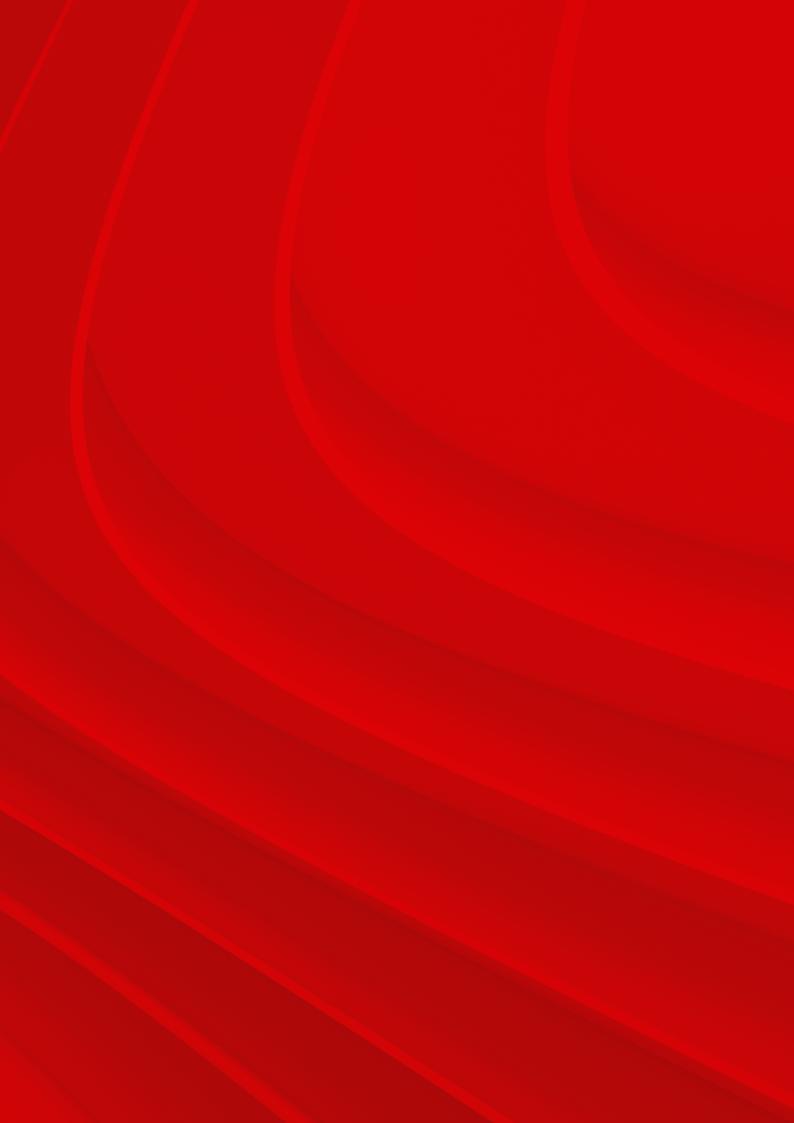


ABB E-mobility provides more than individual chargers, we provide end-to-end charging solutions

In combination with our industry-leading service agreements and fleet charger management system, InControl, the HVC360 becomes a 360-degree solution for fleet professionals.



ABB E-mobility Services offering

ABB E-mobility's global service concept and its 'Care' Service Level Agreement combine leading technologies with the knowledge and talents of experienced service experts to enable fast and reliable solutions in critical moments for vital infrastructure.

Supporting any business model or installation size, ABB E-mobility provides services to its global installed base of EV chargers, ensuring the same high-quality service to our customers in the sector that trusts our expertise and commitment.

Remote service

ABB E-mobility technical support teams can diagnose more than 90% of cases and solve over 75% remotely.

On-site service

and compliance scheduled to meet your needs

ABB E-mobility on-site teams perform expert preventive maintenance and can quickly solve the last 25% of remotely diagnosed cases with well-planned parts stocking program.

Service Level Agreement • Remote & on-site support • Preventive maintenance • Spare parts **Training & certification** Diagnostic training · Field service training Commissioning Ensure that ABB E-mobility charging equipment is properly installed **Extended warranty** Lengthen the period of warranty coverage **On-demand preventive** or corrective maintenance Ensure optimal performance

ABB E-mobility "Care" SLA

97% uptime commitment

ABB E-mobility's "Care" Service Level Agreement (SLA) offers a superior level of services in addition to a product warranty, providing the perfect solution for any type and size of installation, even during the warranty and extended warranty periods. It can be purchased at any point within the product's life cycle. The "Care" SLA helps optimize the total cost of ownership and improves uptime.

Together with ABB E-mobility Connected Services, including 24/7 connectivity support, our SLA programs ensures the best experience in remote and on-site diagnosis thanks to support from our global Network Operation Center's experts, ensuring faster response times.



Get peace of mind

Global and continuous customer support

Thanks to ABB E-mobility certified local partner network, the Network Operation Center and technical support team ensure high connectivity and fast response and resolution times.



High uptime, low investment

Maximize your profitability

Implementing a SLA means charger performance is measured and improved. Our 97% uptime commitment provides a reliable charging experience for EV charging operators, thereby increasing usage and profitability.



Best-in-class user experience

Easy to use

Mixing ABB E-mobility Connected Services and our "Care" SLA enables easy, real-time diagnostics of your chargers. You can avoid unexpected downtime by knowing the current state of your installation and by scheduling preventive and corrective on-site maintenance.

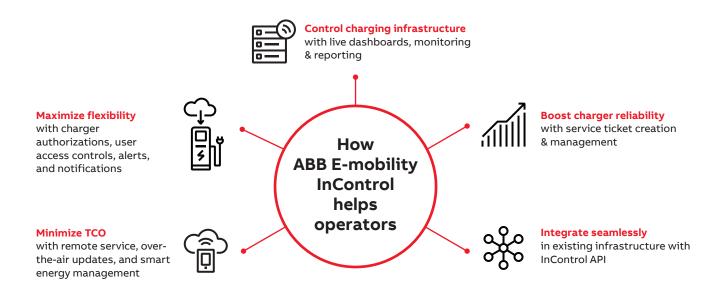
To learn more about ABB E-mobility's SLA offering, click to open the brochure "Global service concept"



ABB E-mobility InControl

Charger management system

Designed for fleet operators, InControl makes it easy to manage your electric vehicle charging. Built for commercial fleets, our cloud-based software allows you to control energy costs, manage your charging depot, maintain your charging equipment, and find revenue opportunities from anywhere with an internet connection.



Live monitoring & reporting

- Monitor fleet charging live with interactive charger, depot, and map views
- Track live sessions, state of charge, charging speed, and more
- Generate revenue with customized energy, utilization and uptime reporting for grant programs and LCFS credits
- Fine-tune user permissions, charger access, and track usage via PIN, RFID, Vehicle ID
- Manage chargers remotely, including reset, configuration, and over-the-air firmware updates.

Service & maintenance



Automatic notification of service events



Manage users, charger access, alerts



Fine tune user permissions



In-app support ticket creation and tracking



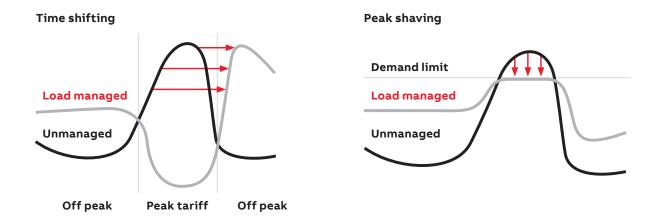
In-app software feature requests and bug reporting

ABB E-mobility InControl

Intelligent energy management

Cost control with smart load management

- Minimize costs with delayed or scheduled charging to avoid peak times and utility demand surcharges
- · Adjust power output on the fly and enforce panel/breaker limits
- Serial and parallel charging support
- Enforce charging limits at a site, group, or charger level
- · Automatically balance power between charging sessions.

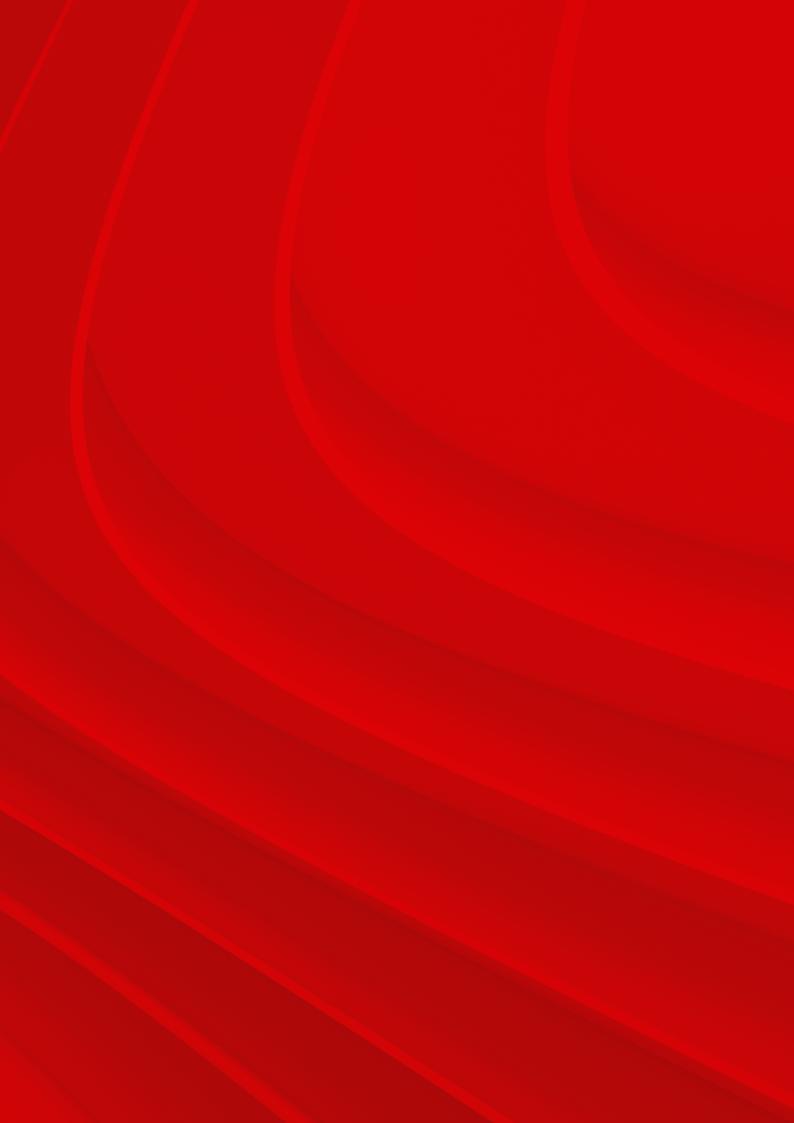


Integrations & grid service participation

- Integrate own EMS to set load management policies using InControl interface or API
- Manage on-site energy sources seamlessly with DER integration for renewables, BESS, microgrids, etc.
- Automate curtailment and/or discharging to the grid with OpenADR certified demand response support
- Generate revenue opportunities from responding to utility signals

Discover our ABB E-mobility InControl Charger management system for fleets





Technical specification

Multi-outlet power cabinet

HVC200

HVC300

HVC360

Dispensers with CCS connectors

Depot charge box Depot charge box dual connector CCS control box

Dispensers with Pantographs

Pantograph-down depot set Pantograph-up depot set

HVC200 power cabinet - Technical specification

Power cabinet		HVC200-2S	HVC200-2D	HVC200-4S	HVC200-4D	
Product code	CE	6AGC116198	6AGC116202	6AGC116227	6AGC116203	
	UL	-	6AGC116223	-	6AGC116226	
	BAA	-	6AGC116231	-	6AGC116232	
Dispenser compatibility						
Charging mode		2 dispensers - Static	2 dispensers - Dynamic	4 dispensers - Static	4 dispensers - Dynami	
Depot charge box single connecto	or	Yes			· andpointered by manning	
Depot charge box dual connector		Yes				
Parallel charging		Yes				
CCS Control box		Yes				
Pantograph-down depot set		Yes				
Pantograph-up depot set		Yes				
Distance between power cabinet & dispensers	:	100 m / 328 ft standard, i	up to 150 m / 492 ft with long o	listance package		
Electrical characteristics						
DC output current (1)		285 A at 700 V DC; 250 A	at 800 V DC			
DC output current per dispenser (142 A at 700 V DC, 125 A at 800 V DC	285 A at 700 V DC, 250 A at 800 V DC	71 A at 700 V DC, 63 A at 800 V DC	285 A at 700 V DC, 250 A at 800 V DC	
DC output power rating (1)		200 kW				
DC output power rating per dispe	enser	100 kW	max. 200 kW	50 kW	max. 200 kW	
DC output voltage		150-940 V				
nput AC power rating - 400 V AC		218 kVA				
<u> </u>						
nput nominal current - 400 V AC		315 A,				
nput AC power rating - 480 V AC		218KVA				
nput nominal current - 480 V AC		262 A				
nput voltage range		CE: 400 V AC +/- 10% (50 UL: 480 V AC +/- 10% (60				
Power factor (2)		≥ 0.98				
Efficiency		94-96%				
Standby power (3)		0.13 kW				
nput power cables		AC power cable 3P+PE m	aximum: 240 mm² / 500 MCM	AWG		
Product characteristics		·				
P and IK rating		IP-54 and IK-10 (cabinet)	/ NEMA 3R			
Noise level		62 dB in any direction at	1 m			
Noise level		62 dB in any direction at	1 m			
Enclosure type		Stainless steel		a a solid floor: Custom foun	dation on a solid floor	
Enclosure type Placement		Stainless steel Concrete foundation on s	1 m soil; Metal frame foundation o	n a solid floor; Custom found	dation on a solid floor	
Enclosure type Placement Operational attitude		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft	soil; Metal frame foundation o	n a solid floor; Custom found	dation on a solid floor	
Enclosure type Placement Operational attitude Operation temperature range (4)		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to	soil; Metal frame foundation or	n a solid floor; Custom found	dation on a solid floor	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative	soil; Metal frame foundation of o 131°F humidity 5 to 85%	n a solid floor; Custom found	dation on a solid floor	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is	oil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard			
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Derating		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level.			
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level.			
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Derating		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level.			
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D)		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level.			
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Oerating Dimensions (H x W x D) Weight		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level.			
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Oerating Dimensions (H x W x D) Weight Color		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be co	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level.	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Oerating Dimensions (H x W x D) Weight Color User interface		Stainless steel Concrete foundation on s Up to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consisted to the pow Yes, RGB LED on the pow	onii; Metal frame foundation on 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Oerating Dimensions (H x W x D) Weight Color User interface Emergency button LED		Stainless steel Concrete foundation on support of the state of the sta	soil; Metal frame foundation of 0 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Diperational attitude Diperation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button LED Gervice access		Stainless steel Concrete foundation on support of the state of the sta	onii; Metal frame foundation on the dispenser (cable/panton level. 35.83 x 46.06 x 30.32 in connected external EMG button level external EMG button, Department of the period of the cabinet, 1 per outlet (green blue: charging complete / red	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Operating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition		Stainless steel Concrete foundation on support of the state of the sta	onii; Metal frame foundation on the dispenser (cable/panton level. 35.83 x 46.06 x 30.32 in connected external EMG button level external EMG button, Department of the period of the cabinet, 1 per outlet (green blue: charging complete / red	ograph), vehicle inlet, tempe	rature and duration. This ca	
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Enclosure type Placement Diperational attitude Diperation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispense	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consisted to the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Diperational attitude Diperation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispens Connectivity	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consistency Yes, RGB LED on the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet Internet access via 4G / 3	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Diperational attitude Diperation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispens Connectivity Communication protocols	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consistency Yes, RGB LED on the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet Internet access via 4G / 3 OCPP 1.6 JSON	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red e Autocharge	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Derational attitude Deration temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button ED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispense Connectivity Communication protocols Charging protocols	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consistency Yes, RGB LED on the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet Internet access via 4G / 3 OCPP 1.6 JSON DIN 70121, ISO/IEC 15118	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red e Autocharge 8G / Ethernet (RJ45) 8 series ed 1 with PnC and EIM	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Derational attitude Deration temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button ED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispense Connectivity Communication protocols Charging protocols	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consistency Yes, RGB LED on the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet Internet access via 4G / 3 OCPP 1.6 JSON DIN 70121, ISO/IEC 15118	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red e Autocharge	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Diperational attitude Diperation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispens Connectivity Communication protocols Charging protocols Software update	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consistency Yes, RGB LED on the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet Internet access via 4G / 3 OCPP 1.6 JSON DIN 70121, ISO/IEC 15116 Over-the-air updates via	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red e Autocharge 8G / Ethernet (RJ45) 8 series ed 1 with PnC and EIM	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Diperational attitude Diperation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispense Connectivity Communication protocols Charging protocols Software update Control and configuration	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consistency Yes, RGB LED on the pow blinking blue: charging / Front door Yes can be used to enable CAN2Ethernet Internet access via 4G / 3 OCPP 1.6 JSON DIN 70121, ISO/IEC 15116 Over-the-air updates via	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red e Autocharge 8G / Ethernet (RJ45) 8 series ed 1 with PnC and EIM ABB web portal, OCPP 1.6	ograph), vehicle inlet, tempe	rature and duration. This ca	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Derating Dimensions (H x W x D) Weight Color User interface Emergency button	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consisted to the power of	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button ected external EMG button, Deer cabinet, 1 per outlet (green blue: charging complete / red e Autocharge 8G / Ethernet (RJ45) 8 series ed 1 with PnC and EIM ABB web portal, OCPP 1.6	egraph), vehicle inlet, tempe by the second of the second	rature and duration. This ca G button green: preparation phase /	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Oerating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication to cabinet - dispense Connectivity Communication protocols Charging protocols Software update Control and configuration Certification and standards Charging standards	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consisted by the consistency of	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button, Deer cabinet, 1 per outlet (greenblue: charging complete / red e Autocharge 8G / Ethernet (RJ45) 8 series ed 1 with PnC and EIM ABB web portal, OCPP 1.6 d service portal, OCPP 1.6 51-21-2 ed 1, IEC 61851-23 ed 1	egraph), vehicle inlet, tempe by the second of the second	rature and duration. This ca	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Operating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication cabinet - dispens Connectivity Communication protocols Charging protocols Software update Control and configuration Certification and standards Charging standards Electro-Magnetic Compatibility	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8 830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be consisted by the construction of the power of the construction of the constructi	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 85.83 x 46.06 x 30.32 in connected external EMG button, Deer cabinet, 1 per outlet (greenblue: charging complete / red e Autocharge 8G / Ethernet (RJ45) 8 series ed 1 with PnC and EIM ABB web portal, OCPP 1.6 d service portal, OCPP 1.6 51-21-2 ed 1, IEC 61851-23 ed 1 and Radiated	egraph), vehicle inlet, tempe pot Boxes have internal EM ready to charge / blinkging error)	rature and duration. This ca	
Enclosure type Placement Operational attitude Operation temperature range (4) Storage temperature range Humidity limitation Oerating Dimensions (H x W x D) Weight Color User interface Emergency button LED Service access Vehicle ID recognition Communication & configuration Communication to cabinet - dispense Connectivity Communication protocols Charging protocols Software update Control and configuration Certification and standards Charging standards	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be considered by the construction of the power of the construction of the constructi	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 35.83 x 46.06 x 30.32 in Dennected external EMG button, Detected external EMG bu	pgraph), vehicle inlet, tempe pot Boxes have internal EM ready to charge / blinkging error)	rature and duration. This can be a second of the second of	
Enclosure type Placement Definition of the protocols Dervice access Vehicle ID recognition Communication & configuration Communication protocols Charging protocols Control and configuration Certification and standards Charging standards Electro-Magnetic Compatibility Compliance	sers	Stainless steel Concrete foundation on sup to 2000 m / 6562 ft -35°C to +55°C / -31°F to +5 to +40°C with relative 5-95% non-condensing is Derating highly depends only be given on a system 2180 x 1170 x 770 mm / 8830 kg / 1829.84 lb RAL 9002 Power Cabinet: Can be considered by the construction of the power of the construction of the constructi	soil; Metal frame foundation of 131°F humidity 5 to 85% s standard on the dispenser (cable/panton level. 35.83 x 46.06 x 30.32 in Dennected external EMG button, Detected external EMG bu	pgraph), vehicle inlet, tempe pot Boxes have internal EMI ready to charge / blinkging error)	rature and duration. This can be a second of the second of	

⁽¹⁾ Maximum output current and output power rating could be limited by the dispenser
(2) Power factor at Output power ≥ 10 kW
(3) HVC360 + 2 x depot charge box + 2 x Control Box / Ambient 25°C, no heater
(4) Measured according to IEC 62196-1, current rating and duration at higher temperatures is highly dependent on the dispenser and vehicle inlet.

HVC300 power cabinet - Technical specification

Product code			HVC300-2D	HVC300-4S	HVC300-4D
_	CE	6AGC116204	6AGC116205	6AGC116228	6AGC116200
	UL	-	6AGC116219	-	6AGC116222
_	ВАА	-	6AGC116214	-	6AGC116230
Dispenser compatibility					
Charging mode		2 dispensers - Static	2 dispensers - Dynamic	4 dispensers - Static	4 dispensers - Dynamic
Depot charge box single connecto	or	Yes		·	
Depot charge box dual connector		Yes			
Parallel charging		Yes			
CCS Control box		Yes			
Pantograph-down depot set		Yes			
Pantograph-up depot set		Yes			
Distance between power cabinet			up to 150 m / 492 ft with long o	distance package	
& dispensers		100111/ 32811 Standard,		пѕсапсе раскаде	
Electrical characteristics					
DC output current (1)		430 A at 700 V DC; 375 A			
DC output current per dispenser ((1)	215 A at 700 V DC, 188 A at 800 V DC	430A at 700V DC, 375A at 800V DC	105 A at 700 V DC, 90 A at 800 V DC	430 A at 700 V DC, 375 A at 800 V DC
DC output power rating (1)		300 kW			
DC output power rating per dispe	nser	150 kW	max. 300 kW	75 kW	max. 300 kW
DC output voltage		150-940 V			
nput AC power rating - 400 V AC		326 kVA			
nput nominal current - 400 V AC		470 A			
nput AC power rating - 480 V AC		326 kVA			
nput nominal current - 480 V AC		392 A			
nput voltage range		CE: 400 V AC +/- 10% (50 UL: 480 V AC +/- 10% (60			
Power factor (2)		≥ 0.98	-112/		
Efficiency		94-96%			
Standby power (3)		0.13 kW	240 2 / 500 MGM	A)./C	
nput power cable		AC power cable 3P+PE m	naximum: 240 mm² / 500 MCM	AWG	
Product characteristics					
P and IK rating		IP-54 and IK-10 (cabinet)	•		
Noise level		62 dB in any direction at	1 m		
Enclosure type		Stainless steel			
Placement		Concrete foundation on	soil; Metal frame foundation or	n a solid floor; Custom found	dation on a solid floor
Operational attitude		Up to 2000 m / 6562 ft			
Operation temperature range (4)		-35°C to +55°C / -31°F to	131°F		
Storage temperature range		+5 to +40°C with relative	humidity 5 to 85%		
Humidity limitation		5-95% non-condensing i	s standard		
Derating		Derating highly depends on the dispenser (cable/pantograph), vehicle inlet, temperature and duration. This can only be given on a system level.			
Dimensions (H x W x D)		2180 x 1170 x 770 mm / 8			
Weight		890 kg / 1962.11 lb			
Color		RAL 9002			
User interface					
		Power Cabinat: Can ba a	onnected external EMG button		
Emergency button		Dispensers: Can be conn	ected external EMG button, De	epot Boxes have internal EM	
LED		blinking blue: charging /	ver cabinet, 1 per outlet (green: ' blue: charging complete / red:		green: preparation phase /
Service access		Front door			
Vehicle ID recognition		Yes can be used to enabl	e Autocharge		
Communication & Configuration					
Communication cabinet - dispens	sers	CAN2Ethernet			
Connectivity		Internet access via 4G / 3	3G / Ethernet (RJ45)		
Communication protocols		OCPP 1.6 JSON			
Charging protocols		DIN 70121, ISO/IEC 1511	8 series ed 1 with PnC and EIM		
Software update		Over-the-air updates via ABB web portal, OCPP 1.6			
Control and configuration		· · · · · · · · · · · · · · · · · · ·	rd service portal, OCPP 1.6		
Certification and standards					
Charging standard			351-21-2 ed 1, IEC 61851-23 ed 1	I, IEC 61851-24 ed 1, IEC 621	96-2, IEC 62196-3, IEC 61000
		UL 2202, CSA 22.2	and Padiated		
Tlactra Magnatic Campatibility		EMC-Class A Conducted			
Electro-Magnetic Compatibility		CE and UL certification, BAA compliant option for transit Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions			
Electro-Magnetic Compatibility Compliance Warranty		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		livery. Warranty extensions

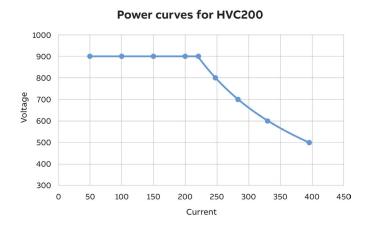
⁽¹⁾ Maximum output current and output power rating could be limited by the dispenser
(2) Power factor at Output power ≥ 10 kW
(3) HVC360 + 2 x depot charge box + 2 x Control Box / Ambient 25°C, no heater
(4) Measured according to IEC 62196-1, current rating and duration at higher temperatures is highly dependent on the charging interface and vehicle inlet.

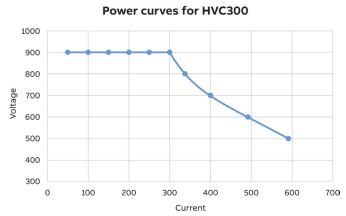
HVC360 power cabinet -Technical specification

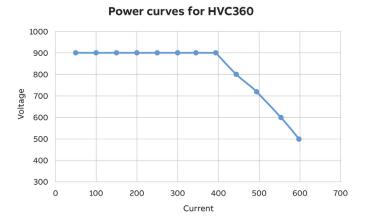
Power cabinet	HVC360-2S	HVC360-2D	HVC360-4S	HVC360-4D		
Product code	CE 6AGC116216	6AGC116208	6AGC116206	6AGC114241		
	UL -	6AGC116210	-	6AGC115579		
B	AA -	6AGC116213	-	6AGC116199		
Charging interface compatibility						
Charging mode	2 dispensers - Static	2 dispensers - Dynamic	4 dispensers - Static	4 dispensers - Dynami		
Depot charge box single connector	· ·					
Depot charge box dual connector	Yes					
Parallel charging	Yes					
CCS Control box	Yes					
Pantograph-down depot set	Yes					
	Yes					
Pantograph-up depot set		d to 150 / 100 ft ith loans	linka a na na na na na			
Distance between power cabinet & dispensers	100 m / 328 ft standard	d, up to 150 m / 492 ft with long o	distance package			
Product information						
DC output current (1)	500 A at 720 V DC; 450	A at 800 V DC				
DC output current per dispenser (1)) 250 A at 720 V DC, 225 A at 800 V DC	500 A at 720 V DC, 450 A at 800 V DC	125 A at 720 V DC, 125 A at 800 V DC	500 A at 720 V DC, 450 A at 800 V DC		
OC output power rating (1)	360 kW					
DC output power rating per dispen	ser 180 kW	max. 360 kW	90 kW	max. 360 kW		
DC output voltage	150-940 V					
nput AC power rating - 400 V AC	390 kVA					
nput nominal current - 400 V AC	560 A					
nput AC power rating - 480 V AC	391 kVA					
nput nominal current - 480 V AC	470 A CE: 400 V AC +/- 10% (5	50 H 3)				
nput voltage range	UL: 480 V AC +/- 10% (6					
Power factor (2)	≥ 0.98					
Efficiency	94-96%					
Standby power (3)	0.13 kW	2.4				
nput power cable	AC power cable 3P+PE	maximum: 240 mm² / 500 MCM	AWG			
General characteristics						
P and IK rating	IP-54 and IK-10 (cabine	• • • • • • • • • • • • • • • • • • • •				
Noise level	62 dB in any direction a	at 1 m				
Enclosure type	Stainless steel					
Placement	Concrete foundation o	n soil; Metal frame foundation o	n a solid floor; Custom foun	dation on a solid floor		
Operational attitude	Up to 2000 m / 6562 ft					
Operation temperature range (4)	-35°C to +55°C / -31°F	to 131°F				
Storage temperature range	+5 to +40°C with relativ	ve humidity 5 to 85%				
Humidity limitation	5-95% non-condensing	g is standard				
Derating	Derating highly depend only be given on a syste	ds on the dispenser (cable/panto em level.	ograph), vehicle inlet, tempe	rature and duration. This ca		
Dimensions (H x W x D)	2180 x 1170 x 770 mm	2180 x 1170 x 770 mm / 85.83 x 46.06 x 30.32 in				
Weight	950 kg / 2094.39 lb	·				
Color	RAL 9002					
User interface						
Emergency button		connected external EMG button		G button		
LED	Yes, RGB LED on the po	ower cabinet, 1 per outlet (green // blue: charging complete / red	ready to charge / blinkging			
Service access	Front door	.,	- ,			
Vehicle ID recognition	Yes can be used to ena	ble Autocharge				
Communication & Configuration	. co can be asea to ena		T			
Communication a Configuration	rs CAN2Ethernet					
· · · · · · · · · · · · · · · · · · ·		/ 3G / Ethernot (D145)				
Connectivity Communication protocols		Internet access via 4G / 3G / Ethernet (RJ45)				
<u>'</u>	OCPP 1.6 JSON	140 service and through the Contract				
Charging protocols		DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM				
Software update	· · · · · · · · · · · · · · · · · · ·	Over-the-air updates via ABB web portal, OCPP 1.6				
Control and configuration	ABB web portal, on-bo	ard service portal, OCPP 1.6				
Certification and standards						
Charging standard	IEC 61851-1 ed 3, IEC 61 UL 2202, CSA 22.2	1851-21-2 ed 1, IEC 61851-23 ed 1	I, IEC 61851-24 ed 1, IEC 621	96-2, IEC 62196-3, IEC 6100		
Electro-Magnetic Compatibility	Standard: EMC-Class A	Conducted and Radiated				
Compliance	CE and UL certification	n, BAA compliant option for trans	sit			
Compliance		Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions				
Warranty	Base warranty 24 mont available.	ths after Site Acceptance Test or	30 months after factory de	livery. warranty extensions		

⁽¹⁾ Maximum output current and output power rating could be limited by the dispenser
(2) Power factor at Output power ≥ 10 kW
(3) HVC360 + 2 x depot charge box + 2 x Control Box / Ambient 25°C, no heater
(4) Measured according to IEC 62196-1, current rating and duration at higher temperatures is highly dependent on the dispenser and vehicle inlet.

Performances

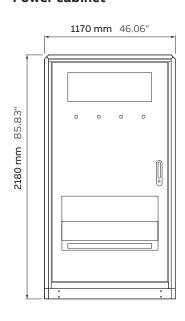


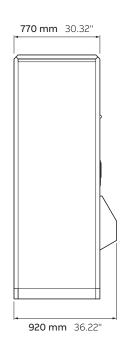




Dimensions

Power cabinet





Dispensers with connectors

Dispenser		Depot charge box	Depot charge box dual connector	CCS Control box	
Electrical characteristics					
DC output current max (1)		250 A (CE) / 200 A (UL)	250 A	200 A	
DC output current rating max podispenser (2)	er	With HVC200: 142 A With HVC300: 215 A With HVC360: 250 A		With HVC200: 142 A With HVC300: 200 A With HVC360: 200 A	
DC output power rating		50 - 360 kW			
DC output power rating max pe dispenser (2)	r	With HVC200: 100 kW With HVC300: 150 kW With HVC360: 180 kW			
DC output voltage range		150 - 940 V DC			
Standby power				8W	
Connector Types		CCS1, CCS2			
Cable length		7 m, 9.5 m / 22.97 ft, 31.17 ft	9.5 m / 31.17 ft	7 m, 9.5 m / 22.97 ft, 31.17 ft	
Product characteristics					
nstallation		Wall or pedestal		Overhead (truss, celling,)	
Environmental protection rating	g	IP-65 - NEMA 3R			
Enclosure type		Stainless steel			
Operational altitude		Up to 2000 m / 6562 ft			
Operation temperature range		-35°C to +55°C / -31°F to +131°F			
Storage temperature range		+5 to +40°C / +41 to +104°F with re	elative humidity 5 to 85%		
Humidity limitation		5% to 95%, RH - non-condensing	-		
Dimensions (H x W x D)	Вох	940 x 699 x 240 mm / 37.01 x 27.52 x 9.45 in	940 x 699 x 280 mm / 37.01 x 27.52 x 11 in	450 x 600 x 250 mm / 17.72 x 23.62 x 9.84 in	
_	On pedestal	2440 x 699 x 240 mm / 96 x 27.52 x 9.445in	940 x 699 x 280 mm / 96 x 27.52 x 11 in	-	
Weight	Вох	95 kg (7 m cable) / 209.4 lb (22.97 ft cable) 98 kg (9.5 m cable) / 216 lb (31.17 ft cable)	122 kg (9.5 m cables) / 269 lb (31.17 ft cables)	50 kg (7 m cable) / 110.23 lb (22.97 ft cable) 55 kg (9.5 m cable) / 121.25 lb (31.17 ft cable)	
_	Pedestal	60 kg / 132 lb		-	
Color		RAL 9002			
	Pedestal	RAL 7012		-	
Jser interface					
Emergency button		Included on dispenser, also availab	le as an externally mounted option	Available as an externally mounted option	
Stop button		Yes & external option		Option for external stop button	
LED indicator			een: ready to charge / blinkging greer ging complete / red: error) & externa		
Electrical connection (between	power cabin	et and dispenser)			
OC power cable		2 or 4 x 185 mm² (maximum) / 2 or	4 x 350 MCM AWG (maximum)		
AC power cable		3 x 6 mm² / 3 x 14 AWG	3 x 2.5 mm ² / 3 x 14 AWG	2 x 6 mm ² / 2x10 AWG	
Distance (3)		Up to 150 m - 492 ft			
Communication and protocols	(via power ca	abinet)		,	
Communication cabinet - outlet	:	CAN2Ethernet (CE) / CAN2FIBER (UL)	CAN2Ethernet		
Connectivity		Internet access via 4G / 3G / Ether	net (RJ45)		
Charge protocols		DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM			
Communication protocols		OCPP 1.6 JSON			
Certification and standards				,	
Standards			.4, IEC 61851-1: 2010, IEC 61851-23: 20 61000-6-4: 2007+A1, UL 2202: 2009 R		
Compliance		CE and UL certification, BAA comp	· · · · · · · · · · · · · · · · · · ·		
Warranty		Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available.			
Designed lifespan			etime of 10 years assuming they rece lengineer. Under certain conditions a		

⁽¹⁾ Peak value under conditions. As specified by cable/ connector supplier and measured according to IEC 62196-1, current rating and duration is highly dependent on the vehicle inlet, the ambient temperature and sun radiation. More details can be provided upon request.

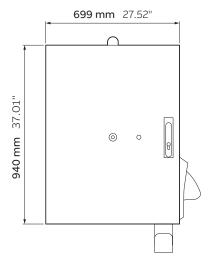
⁽²⁾ DC output current and power ratings per outlet depend on the power cabinet power (200-360 kW) and number of connectors (2-4).

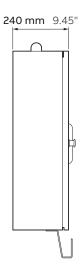
For more information, please refer to the HVC power cabinet technical specification in this brochure.

⁽³⁾ Values with long distance kit. The standard distance (without long distance kit) is 100 m / 328 ft.

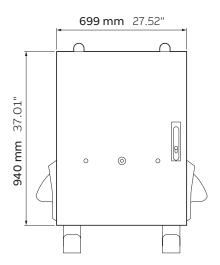
Dimensions

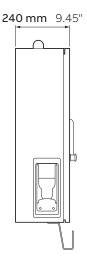
Depot charge box



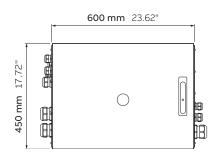


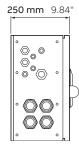
Depot charge box dual outlet





CCS control box





Dispensers with pantographs

Pantograph	Pantograph-down depot set (CE)	Pantograph-down depot set (UL)	Pantograph-up depot set (CE)		
Product information					
DC output current peak	400 A		350 A		
DC output current rating max per dispenser (1)	With HVC200: 142 A With HVC300: 215 A With HVC360: 400 A		With HVC200: 142 A With HVC300: 215 A With HVC360: 350 A		
DC output power rating	50 - 360kW				
DC output power rating max per dispenser (1)	With HVC200: 200 kW With HVC300: 300 kW With HVC360: 360 kW				
DC output voltage range	150 - 1000 V DC		150 - 940 V DC		
Standby power	15 W		< 8 W		
Product characteristics					
nstallation	Overhead, on any kind of support (truss, ceiling,)			
IP and IK rating	IP-65, IK10	Nema 3R	IP-65, IK10		
Enclosure type	Stainless steel				
Operational altitude	Up to 2000 m / 6562 ft				
Operation temperature range	-35°C to +55°C / -31°F to 131°F				
Storage temperature range	-10°C to +70°C / 14°F to 158°F				
Humidity limitation	5% to 95%, RH - non-condensing				
Dimensions (H x W x D)	Control box: 450 x 600 x 250 mm Pantograph: 572 x 2046 x 825 mm Unfolding range: 400 - 1000 mm	22.75 x 82.76 x 50.79 in Unfolding range: 15.75 - 39.37 in	Control box 450 x 600 x 250 mm Dome: 385 x 1300 x 770 mm		
Mass	Control box: 45 kg Pantograph: 90 kg	405 lb (the control box and the pantograph are one the same kit)	Control box: 45 kg Dome		
Color	Control box: RAL 9002				
User interface					
Emergency button	Option for external emergency but	ton			
Stop button	Option for external emergency but	ton			
LED indicator		en: ready to charge / blinkging greer ging complete / red: error) & externa			
RFID reader (2)	-				
Electrical connection - between power	cabinet and control box				
DC power cable	2 or 4 x 185 mm² (maximum) / 2 or	4 x 350 MCM AWG (maximum)			
AC power cable	3 x 6 mm²	3 x 14 AWG	-		
24 V DC cable	-		2 x 6 mm²		
Distance (3)	Up to 150 m - 492 ft				
Electrical connection - between contro	l box and pantograph				
DC power cable	2 x 185 mm² (maximum) / 2 x 350 N	1CM (maximum)			
ACS pantograph control	7 x 2.5 mm²	7 x 14 AWG	-		
Distance	Up to 10 m	-	Up to 10 m		
Communication and protocols (via pow	ver cabinet)				
Communication cabinet - outlet	CAN2Ethernet				
Connectivity	Internet access via 4G / 3G / Etherr	net (RJ45)			
Charge protocols	-		DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM		
Communication protocols	OCPP 1.6 JSON				
Certification and standards					
Standards		0, EN 61851-23: 2014, IEC 61851-23: 2014, IEC 61851-23: 2014, EN 61000-6-16-4: 2007+A1			
Compliance	CE	UL	CE		
Warranty	Base warranty 24 months after Site extensions available.	Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty			
Designed lifespan		etime of 10 years assuming they rece engineer. Under certain conditions a			

⁽¹⁾ DC output current and power ratings per dispenser depend on the power cabinet power (200-360 kW) and number of dispensers (2-4).

For more information, please refer to the HVC power cabinet technical specification in this brochure.

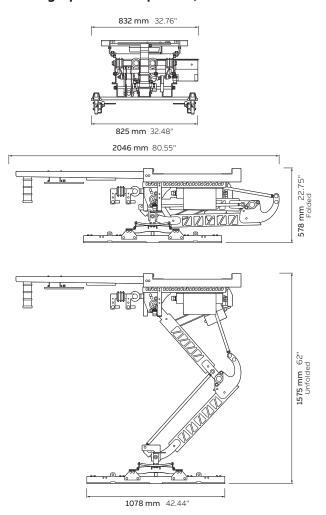
⁽²⁾ RFID is an additional safety measure to prevent the pantograph from moving down when no bus is parked underneath. It is mandatory when two charge poles or pantographs are positioned within a distance of 12 m or less from each other (centre-to-centre of each pantograph).

RFID is used as a pairing verification method to guarantee the bus always communicates with the right charger. The RFID antenna is installed in the charge pole, and the RFID tag will need to be installed on the bus' roof.

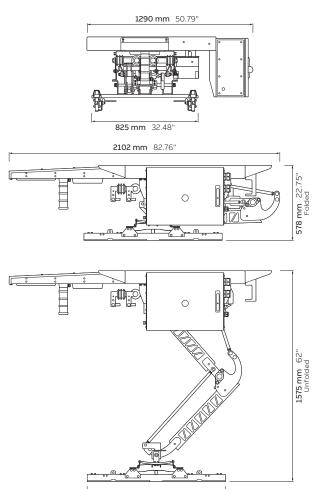
⁽³⁾ Values with long distance kit. The standard distance (without long distance kit) is 100 m / 328 ft.

Dimensions

Pantograph-down depot set, CE

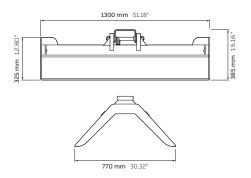


Pantograph-down depot kit, UL

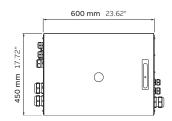


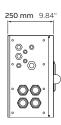
1078 mm 42.44"

Pantograph-up depot set, CE



Control box, CE (for pantograph-up and pantograph-down)







For more information

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