PRODUCT DATASHEET

Pantograph-down depot set for HVC360 multi-outlet cabinet

Easy integration into existing operations and bus depot

Pantograph-down depot set offers an ideal solution for charging electric buses fleet with an inverted pantograph positioned over the vehicle at depot for overnight or long charging session.

Positioned on the infrastructure, the pantograph-down depot set can easily be integrated into existing operations and bus depots, ensuring zero-emission public transport.

- **Safe and reliable operation:** RFID* pairing technology
- **Easy to use** thanks to optimum remote diagnostics and management interface tools
- **Ensured interoperability**: one charger can serve multiple vehicle types and brands

Technical specifications

Market		CE	NA
Product information			
DC output continuous current rating		400 A	
DC output current rating max per dispenser (1)		With HVC200: 142 A With HVC300: 215 A With HVC360: 400 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	
Standby power		15 W	
Product characteristics			
Installation		Overhead, on any kind of support (truss, celling, ...)	
IP and IK rating		IP-65, IK10	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		-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	22.75 x 82.76 x 50.79 in (the control box and the pantograph are one the same kit)
	Pantograph (folded)	575 x 1761 x 670 mm	
	Unfolding range	400 - 1000 mm	15.75 in - 39.37 in
Weight	Control box	45 kg	450 lb (the control box and the pantograph are one the same kit)
	Pantograph	90 kg	
Color		RAL 9002	
User interface			
Emergency button		Option for external emergency button	
Stop button		Option for external emergency button	
LED indicator		Yes, RGB LED on the dispenser (green: ready to charge / blinkging green: preparation phase / blinking blue: charging / blue: charging complete / red: error) & external option	
RFID reader (3)		-	
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
Distance		Up to 150 m	Up to 492 ft
Electrical connection - between control box and pantograph			
DC power cable		2 x 185 mm² (maximum)	2 x 350 MCM (maximum)
ACS pantograph control		7 x 2.5 mm²	7 x 14 AWG
Distance		Up to 10 m	Up to 3.28 ft
Communication and protocols (via power cabinet)			
Communication cabinet - dispenser		CAN2Ethernet	
Connectivity		Internet access via 4G / 3G / Ethernet (RJ45)	
Charge protocols		-	
Communication protocols		OCPP 1.6 JSON	
Certification and standards			
Standards		EN 61851-1: 2011, EN 61851-23: 2014, IEC 61851-1: 2010, IEC 61851-23: 2014, EN IEC 61851-1: 2019, IEC 61851-1: 2017, EN IEC 61000-6-1: 2019, EN IEC 61000-6-2: 2019, EN IEC 61000-6-3: 2021, EN 61000-6-4: 2007+A1, UL 2202: 2009 R2.18, CSA C22.2 No. 107.1-16	
Compliance		CE	NA market, BAA compliant option for transit
Warranty		Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available.	
Designed lifespan		ABB chargers are designed for a lifetime of 10 years assuming they receive maintenance according to the maintenance schedule by a trained engineer. Under certain conditions and for certain models this can be extended to 15 years.	

(1) DC output current and power ratings per outlet depend on the power cabinet power (200-360 kW) and number of outlets (2-4).
For more information, please refer to the datasheet “HVC360 Charging solution for heavy duty EV fleet”.
(2) Values with long distance kit. The standard distance (without long distance kit) is 100 m / 328 ft.
(3) 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.

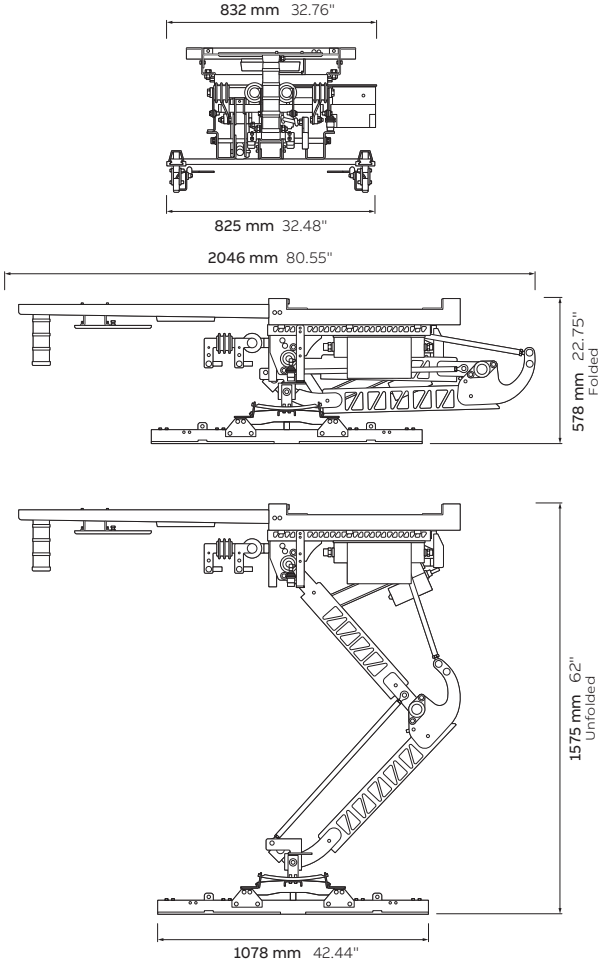
Product codes

Compliancy	Product code
CE	6AGC102132

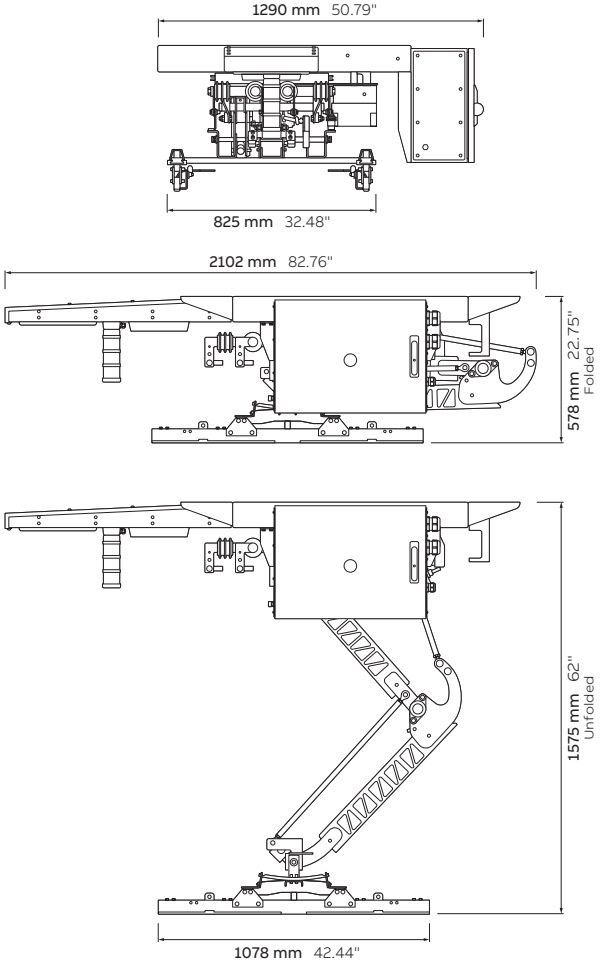
Dimensions

Pantograph-down depot set - CE version

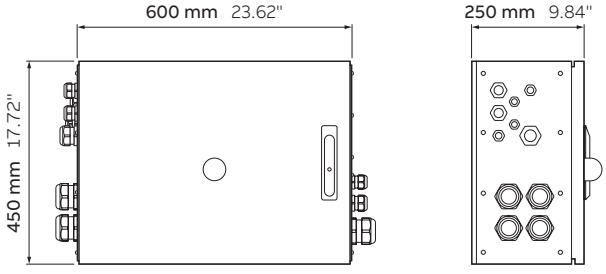
Pantograph-down



Pantograph-down depot kit - NA version



Control box



For more information
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