USER MANUAL

HVC 100C / HVC 150C with Depot Charge box
User and Operation Manual
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Glossary

**CCS**
Combined Charging System. A universal AC and DC charging system, also referred to as ‘Combo’.

**DC**
Direct Current.

**EV**
Electric Vehicle.

**Owner**
The legal owner of the charger.

**OCPP**
Open Charge Point Protocol. Open standard for communication with charge stations.

**PE**
Protective Earth.

**RCBO**
Residual-current Circuit Breaker with Overload protection. Breaks the connection if a residual current or overload is detected.

**RCD**
Residual Current Device. Breaks the connection if a residual current is detected.

**Site operator**
Person or company that controls the charge station. The site operator can be the owner, but not necessarily.

**User**
The driver of an EV who uses the charge station.
1 Introduction

1.1 Preface

The HVC-R product line is the new ABB solution for Overnight Charging of Heavy Vehicles. The product line allows 100kW and 150kW charging with a Dual Depot Charge Box equipped with two charge outlets. The charging of the vehicles is done sequentially following the first come, first serve principle.

This manual describes the general usage and daily operation instructions of the HVC-R product family.

1.2 Intended use of this document

This document serves:

- As a reference for site operators who are responsible for the charger’s operation on site, performing daily inspection and maintenance activities and who are able to perform simple troubleshooting activities, after instruction of a certified ABB technician.

- As a reference to the operator’s customers, the EV drivers, who will mainly use the pictograms and texts on the display of the charger. The user interface design was thoroughly evaluated with user groups to optimize understandability and to get the best user experience. Besides the screens needed for the charging process, the interface has help screens available to provide additional information.

1.3 Intended use of the charger

The HVC-R product is a stand-alone DC high power charger for electric buses and trucks. The outlets of the charger must not be used to charge any other equipment than electric vehicles compatible with the supported charging standards.
1.4 Owner responsibilities

The Owner and Site Operator are required:

- to operate the charge station with the protective devices installed, and to make sure all protective devices are correctly installed after carrying out installation or maintenance;

- to prepare a plan containing instructions on actions to be taken in case of an emergency;
- to prepare the site where the charge station will be installed, according to the requirements described in this guide;
- to make sure that there is enough space around the charger to carry out maintenance work;
- to appoint a person responsible for the safe operation of the charge station and for the coordination of all works. (This person should be properly instructed by ABB or an ABB trained service partner.)

The Owner is cautioned that changes or modifications not expressly approved by ABB could void the owner’s authority to operate the equipment or ABB’s warranty. Neither ABB nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs or expenses incurred by purchaser or third parties as a result of: an accident, misuse or abuse of this product, or unauthorized modifications, repairs or alterations to this product, or failure to strictly comply ABB operating and maintenance instructions.
1.5 **Signs**

The following signs are placed on the equipment and utilized in this manual:

<table>
<thead>
<tr>
<th>Sign</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DANGER</strong></td>
<td>Hazardous voltage&lt;br&gt;Identifies a hazard that could result in severe injury or death by electrocution.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Various &lt;br&gt;Identifies a hazard that could result in severe injury or death.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Rotating parts&lt;br&gt;Identifies a hazard that could result in injury due to the presence of rotating or moving parts.</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Pinch Hazard&lt;br&gt;Identifies a hazard that could result in injuries, in which some body parts are pinched or crushed.</td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>Various&lt;br&gt;Identifies a hazard that could result in damage to the machine, other equipment, and/or environmental pollution</td>
</tr>
</tbody>
</table>

**NOTICE**<br>Contains remarks, suggestions or advice.
## 1.6 Safety regulations

| ![Warning Icon] | **WARNING**  
If a charge outlet is damaged, take the following steps:  
1. Do not use the damaged charge outlet.  
2. Contact the Owner / Site Operator. |
| ![Warning Icon] | **WARNING**  
If there is an emergency  
1. Push the emergency stop.  
2. Contact the Owner / Site Operator.  
3. Act according to the emergency procedure of the Owner / Site Operator. |
| ![Warning Icon] | **WARNING**  
**Operation after damage or accidents**  
- If there is a fire in or nearby the charger;  
- If the charger was immersed in water, or any other fluid;  
- If the charger is damaged in any way.  
Do not use the charger. Contact the Owner / Site Operator. |
| ![Notice Icon] | **NOTICE**  
**When connecting or disconnecting a connector**  
1. Handle cables and connectors with care. Do not drop the cables or connectors. Place them back in their respective holders.  
2. Only insert a connector into a suitable car inlet. Never use excessive force. |
| ![Notice Icon] | **NOTICE**  
**Connector locked**  
The DC connector will be locked during the charging process to prevent it from dropping or being pulled out. Do not apply any force on the cable during the charging process as it might damage the inlet and locking mechanism in your car or damage the charger. |
2 Description of the product

2.1 Overview of the system

A. Power Cabinet 100-150kW
B. Depot Charge Boxes

2.2 Power Cabinet

A. Door
B. Door handle / lock
C. 3G Antenna
D. Air inlets (also on the left and back side)
E. Air outlet

CAUTION

The Power Cabinet has air inlets (D) and an air outlet (E) to control the temperature inside the cabinet. Do not install or place any objects near or against these air inlets and outlet. If necessary, take precautions to prevent snow or any other objects from blocking the air inlets and outlet.
2.3 Dual Depot Charge Box

The user-operated components are indicated below:
A. LED beacon 1
B. Emergency stop button
C. Stop button 1
D. CCS connector 1
E. Connector holder 1
F. CCS charge cable 1
G. CCS charge cable 1
H. Connector holder 2
I. CCS connector 2
J. Stop button 2
K. Door handle & lock
L. LED beacon 2

Overview LED colors and state:
2.4 Charger configurations

The charger is built up with a modular architecture. Supported charging standards in a charger configuration are described below:

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
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<tr>
<td>HVC-100R CE</td>
<td>100kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with CE certification</td>
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<tr>
<td>HVC-150R CE</td>
<td>150kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with CE certification</td>
</tr>
<tr>
<td>HVC-100R V2 CE</td>
<td>100kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with CE certification</td>
</tr>
<tr>
<td>HVC-150R V2 CE</td>
<td>150kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with CE certification</td>
</tr>
<tr>
<td>HVC-100R UL</td>
<td>100kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with UL certification</td>
</tr>
<tr>
<td>HVC-150R UL</td>
<td>150kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with UL certification</td>
</tr>
<tr>
<td>HVC-100R V2 UL</td>
<td>100kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with UL certification</td>
</tr>
<tr>
<td>HVC-150R V2 UL</td>
<td>150kW Power Cabinet configuration with 1 Dual Depot Charge Box, supporting CCS-2 with UL certification</td>
</tr>
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2.5 Authorization to charge

The standard setting does not require authorization. This means that every vehicle supporting CCS is able and allowed to start a charge session. Operating a charger with authorization requires a subscription to a back office. Authorization can only be done based on the Vehicle ID and requires a subscription to a back office. This product does not support an RFID reader.
### 3 Charging instruction

#### 3.1 Charging with one Dual Depot Charge Box

**Start charging:**
1. Park the electric vehicle so that the charge inlet is located within reach of the connector.
2. Turn off the electric vehicle.
3. Connect the charger’s connector to the vehicle’s charge inlet.
4. The charger will automatically start to charge the vehicle after completing the preparation phase and will indicate the progress by the LED’s state (see figure 3).

**Stop charging:**
5. The charge session will automatically stop after completing the bulk charge mode (standard setting is 99% SOC for this setup but this can be customized).
6. The charge session can also be stopped manually by either pushing the stop button on the Dual Depot Charge Box or the stop button on the bus (not available on every bus).
7. Charging stops.
8. The connector is unlocked by the vehicle for CCS when the Dual Depot Charge Box’s beacon light changes color to green.
9. Take the connector out of the vehicle and put it back into the connector holder on the Dual Depot Charge Box.

### NOTICE

**Session end**
Charging will stop without user interaction:
- When the EV indicates to the charger that charging is complete.
- When the charger completed the bulk charge.
If the battery is not full, a new charge session can be started.

### NOTICE

**Stop by emergency button**
The charger stops the charge session when the emergency stop is pushed. Push the emergency stop **only** in case of an emergency!
3.2 Emergency stop

In case of an emergency:
1. Push the emergency stop button (B in figure 2).

The Charger stops the operation and the LED beacon of the Depot Charge Box will be red.

2. Contact the Site Operator.

---

**NOTICE**

Emergency button is pressed by accident

If the emergency stop button is accidentally pushed:
1. Verify that the situation is safe.
2. Pull the emergency out.
   - The emergency button is released and the charger is reactivated.
   - After a few seconds the charger returns to normal operation.
4 Operator Instructions

4.1 Cleaning the Power Cabinet and the Dual Depot Charge Box

**DANGER**

**Electrical components**
- Do not apply high-pressure water jets. Water may leak into the cabinet.
- Only use cleaning agents with a pH value between 6 and 8.
- Do not use cleaning agents with abrasive components.
- Do not use abrasive tools.

The cabinets of the Power Cabinet and the Dual Depot Charge Box are made from powder coated high quality stainless steel. The coating must be kept in good condition.

Clean the Charger three times a year in the following way:
- Remove rough dirt by rinsing with low-pressure tap water.
- Apply a neutral or weak alkaline cleaning solution and let it soak.
- Remove dirt manually with a non-woven nylon hand pad.
- Rinse thoroughly with tap water.
- Optionally, apply wax on the front for extra protection and gloss.
- Check the coating for damage.

**NOTICE**

Rust forming
When the charger is placed in which it is prone to corrosion, the forming of superficial rust is possible on the welding points on the side grills. This rust is merely visual, there is no possibility this will form a risk to the cabinets integrity. The rust can be removed with the cleaning procedure above. To prevent the rust from reappearing; prime the areas with a transparent or color-like priming finish.

4.2 Preventive maintenance

Maintenance is performed according to the maintenance schedule. The charger must be inspected and serviced yearly by a certified technician.

**4.2.1 Service inspection of the cabinets**

The following points must be checked regularly:
- Correct functioning of the internal RCDs and RCBOs needs to be tested on a regular basis. During the advised yearly maintenance round executed by a certified ABB technician, this will be checked.
4.2.2 Emergency stop inspection

It is advised to test the emergency button on every occasion a qualified worker of the operator or service organization visits the location of the charger. This test needs to be performed at least once a year e.g. during a preventive maintenance round.

Test only when the charger is in idle mode and ready to charge:

1. Press the emergency button.
   - The indicator light (beacon) will turn red.
2. Reset the emergency button by turning the knob clockwise.
   - After a few moments, the charger returns to its idle state.

4.2.3 Special inspections

In the following cases the charger must be checked by ABB service personnel before further use:

- If it was struck by lightning.
- If it is damaged due to an accident or fire.
- If its location has been flooded.

4.3 Problem solving

The Site Operator or Helpdesk are the first response to a Customer’s call. The Helpdesk can solve the Customer’s simpler issues remotely.

In some cases the Site Operator, present at the location of the charger, can be asked by the ABB support to report the status of some internal components of the charger. Therefore a brief description of the positions and functions of these components is presented below.

4.3.1 Overview of the Power Cabinet

A Door
B Door handle / lock (unique key for each of the Cabinets)
4.3.2 Overview of the Dual Depot Charge Box

A Front door of the Dual Depot Charge Box
B Door handle / lock (unique key for each of the Boxes)

WARNING
Do not open the Dual Depot Charge Box's door if you are not qualified for working with high voltage and high current.
4.3.3 Component overview of the Power Cabinet
The main components can be seen when the front door is open:

A. Main switch
B. MCB (Q17) AC power supply for ACM
C. RCD (Q13) control
D. RCD (Q12) redundant control
E. Display

4.3.4 Component overview of the Dual Depot Charge Box
The main components as can be seen with an open front door:

A. SPD (F1) DC Power Circuit 1
B. Fuse (F2) DC Power Circuit 1
C. SPD (F4) DC Power Circuit 2
D. Fuse (F3) DC Power Circuit 2
E. MCB (F5) AC Power Supply
F. SPD (F6) AC Power Supply
4.4 Technical functioning

4.4.1 Normal operation

Normal positions of the switches and breakers when the charger is in operation (idle; not charging):

**Power Cabinet**
- Main switch (A): Vertical (“1”)
- MCB (Q17) AC power supply for ACM (B): up
- RCD (Q13) control (C): up
- RCD (Q12) redundant control (D): up

**Dual Depot Charge Box**
- SPD (F1) DC Power Circuit 1: green
- Fuse (F2) DC Power Circuit 1: not blown
- SPD (F4) DC Power Circuit 2: green
- Fuse (F3) DC Power Circuit 2: not blown
- MCB (F5) AC Power Supply: up
- SPD (F6) AC Power Supply: green

4.4.2 Switching the charger system on/ off

In case it is necessary to switch off the charger system, it can be done by turning off the main switch (A in Power Cabinet, see section Component overview of the Power Cabinet on page 17):

1. Open the front door.
2. Locate the main switch (A).
3. Turn the handle counterclockwise to the horizontal position, marked with “0”.

**WARNING**

Switching off the charger does not switch off the Depot Box. Each box has its own power supply. To turn off the Depot Box see chapter 4.4.3

To switch the charger back on, turn the handle clockwise to the vertical position, marked with “1”. After about a minute the indicator light (beacon) will turn green.

**NOTICE**

Operating the main switch is quite arduous. Use both hands if needed and be careful not to injure yourself.
4.4.3 Switching the Depot Box off

In case it is necessary to switch off the Depot Box, it can be done by turning off the main switch:

1. Open the front door.
2. Locate the main switch (F).
3. Move the MCB switch down (OFF position). Green painting on the switch should be visible

**NOTICE**

Every Depot Box has its own power supply line. The procedure should be followed with every Depot Box that needs to be turned off.
5 Contact information

<table>
<thead>
<tr>
<th>NOTICE</th>
</tr>
</thead>
</table>
| In case of any problems  
Contact the Site Operator. |

ABB Service department

- PLEASE INSERT YOUR CONTACT DETAILS-
Appendix: A. WEEE disposal – 2012-19 EU

Electrical and electronic equipment to be separately collected in compliance with the Directive on waste electrical and electronic equipment (WEEE) - 2012/19/EU.

The symbol crossed out wheeledbin on your product indicates that this product shall not be mixed or deposited with your household waste, at their end of life.

This product shall be handed over to your local community waste collection point for the recycling of the product.

For more information, please contact your Government Waste-Dispose department in your country.

Inappropriate waste handling could possibly have a negative effect on the environment and human health due to potential hazardous substances. With your cooperation in the correct disposal of this product, you contribute to reuse, recycle and recover the product and our environment will be protected.

**FRANÇAIS**

Equipements électriques et électroniques collectés séparément conformément à la Directive relative aux déchets d’équipements électriques et électroniques (WEEE) - 2012/19/UE.

Ce symbole (poubelle interdite) apposé sur le produit indique que le produit ne doit pas être traité avec les déchets ménagers.

Il doit être remis à un point de collecte approprié pour la reprise des appareils électriques et électroniques. Pour de plus amples informations, veuillez contacter le service de collecte des déchets ménagers local.

Ce produit contient des substances potentiellement dangereuses qui peuvent avoir des effets négatifs sur l’environnement et la santé humaine. En veillant à le mettre au rebut correctement de ce produit, vous contribuerez au traitement, la récupération et le recyclage de ce produit et à la protection de notre environnement.

**ESPÁNOL**

Aparatos eléctricos y electrónicos recogidos de forma separada de conformidad con la Directiva sobre residuos de aparatos eléctricos y electrónicos (WEEE) - 2012/19/UE.

Los productos identificados con este símbolo (contenedor interdicto) no deben eliminarse como residuos domésticos una vez finalizada su vida útil. Este producto debe entregarse a un punto de recogida de los aparatos eléctricos y electrónicos. Para obtener más información, póngase en contacto con la autoridad local encargada de la recogida de residuos.

Este producto puede contener sustancias potencialmente peligrosas que pueden tener un efecto negativo en el medio ambiente y la salud humana. Al desechar este producto de forma correcta, contribuye a su tratamiento, recuperación y reciclaje y, de esta forma, protege nuestro medio ambiente.

**NEDERLANDS**

Elektrische en elektronische apparaten worden opdrachtig ingezameld in overeenstemming met de Richtlijn tot het inzamelen vanClick om de tekst vanaf de linkste kant naar de rechter kant te verschuiven en te lezen. Drie symbool (slikt die ren koelbloeds) op uw product ontkent, dat dit product niet met de rest van het huishoudelijke afval mag worden weggegooid.

Het product moet na een vernieuwings per (milli-)fijn worden gerecycled waar de resterende producten worden gebruikt. Voor meer informatie, raadpleeg uw overheidsorganisatie voor afvalverwerking.

Geen onmogelijk gecombineerd aan te rekken voor een milieu als afval op een verkeerde manier wordt be handeld, kan de milieubescherming potentieel worden in gevaar. Door uw medewerking te verenigen met dit product op de juiste wijze te verwerken, kunt u een bijdrage leveren aan het behouden, het hergebruiken en vermeiden van het afval om deze milieu te behouden.

**DEUTSCH**

Elektro- und Elektronikgeräte sind getrennt zu sammeln in Einhaltung der Richtlinie über Elektro- und Elektronik-Altergeräte (WEEE) - 2012/19/EU.

Dieses Symbol (ausgezogene Mülltonne) auf dem Produkt weist darauf hin, dass dieses Produkt nicht mit dem Hausmüll entsorgt werden darf, sondern beim Recycling an einer dafür vorgesehenen Stelle entsorgt werden sollte.

Für weitere Informationen wenden Sie sich bitte an die örtliche Stelle.

Bei entsprechender Entsorgung besteht das Risiko für negative Auswirkungen auf Umwelt und Gesundheit durch potenziell gefährliche Substanzen. Durch Ihre Kooperation zur ordnungsgemäßen Entsorgung fördern Sie die Vermeidung, das Recycling und die Verwertung von Stoffen und tragen zum Schutz der Umwelt beitragen.

**ITALIANO**

Apparecchiature Elettriche e Elettroniche catturate di raccolta differenziata in conformità alla Direttiva sul Rifiuto di apparecchiature Elettriche e Elettroniche (WEEE) - 2012/19/UE.

Questo prodotto deve essere consegnato al punto di raccolta rifiuti della propria comunità locale per il suo recupero.

Per ulteriori informazioni, rivolgersi all’ufficio stipendiatamente collocato all’interno del rifiuto nel proprio paese.

Un adeguato smaltimento dei rifiuti inappropriato può avere effetti negativi sull’ambiente e sulla salute umana a causa di sostanze potenzialmente pericolose. Collaborando al corretto smaltimento di questo prodotto, contribuirai a raggiungere il recupero, il riciclo e la protezione del nostro ambiente.

**PORTUGUÊS**

Equipamentos Eléctricos e Electrónicos recolhidos de forma diferenciada em conformidade com a Directiva sobre Resíduos de Aparafaturas Eléctricas e Electrónicas (WEEE) - 2012/19/UE.

O símbolo (conta-gentes internas) apontado no produto não deve ser eliminado com os resíduos domésticos uma vez finalizados a vida útil.

Este produto deve ser entregue a um ponto de recolha de equipamentos elétricos e electrónicos. Para mais informações, entre em contacto com o Departamento de Gestão de Resíduos Industrial do local para a recolha deste produto.

Este produto pode conter substâncias potencialmente perigosas que podem causar efeitos negativos no meio ambiente e a saúde humana. Ao reciclar e reutilizar corretamente este produto, contribuirá para a reciclagem, reutilização e proteção do nosso ambiente.

**SVENSKA**

Elektriska och elektroniska produkter ska sammankopplas i samband med direktivet om avfall som avfall av elektriska och elektroniska utrustning (WEEE) - 2012/19/EU.

Denna symbol (avfallssiffror) på produkten indikerar att produkten inte ska smällas eller slängas när det inte fungerar. Produkten ska lämnas åt en lokal avfallsförvaltning för utnyttjning av de resterande delarna.

Denna produkt kan innehålla riskfyllda ämnen eller andra orsaker som kan påverka miljö eller hälsovård. Produkten bör smällas eller slängas på en miljövänlig sätt som begränsar risker för hälsovård och miljö. Huvuddementet att kunna avbryta denna produkt för att bidra till vårklara miljö och se till att avfallsförvaltningen kan avbrytas i ett miljövänligt sätt.