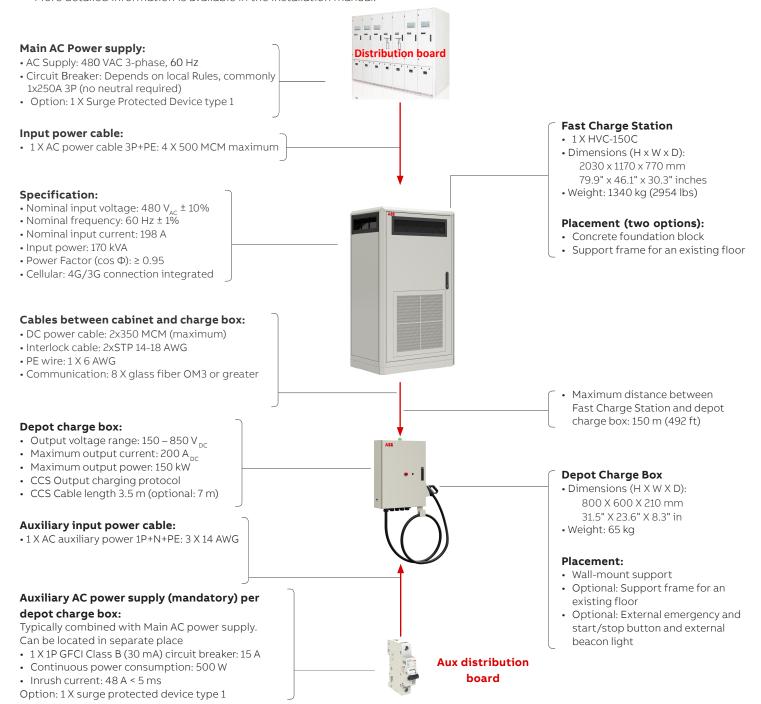


HVC 150C E-Truck charger ∪**L**

This document briefly indicates the main relevant elements for the installation of the HVC truck charger. It can be used as a basic to determine the requirements for a site. The first page explains the installation for 1 depot charge box. The second page explains the installation for two (2) or three (3) depot charge boxes.

General:

- The electrical installation should be designed and constructed according to local laws, safety and electrical regulations.
- A ground electrode should be installed in the earth close to the first charge box or cabinet, based on local regulations and site design. The ground-resistance must be $\leq 10 \Omega$ (subject to local regulations).
- More detailed information is available in the installation manual.



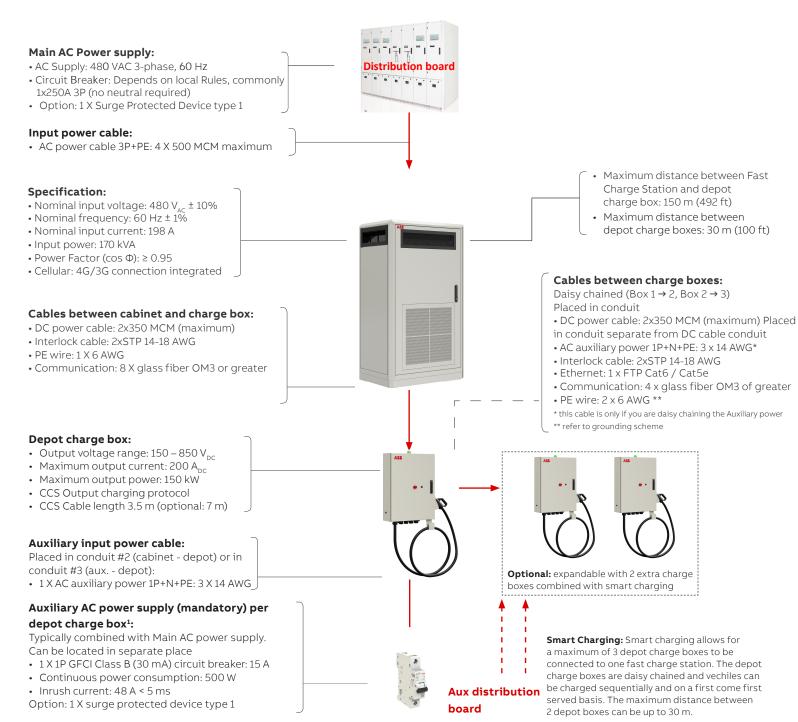


HVC 150C E-Truck charger ∪**L**

Installation of two or three depot charge boxes:

General:

- The electrical installation should be designed and constructed according to local laws, safety and electrical regulations.
- A ground electrode should be installed in the earth close to the first charge box or cabinet, based on local regulations and site design. The ground-resistance must be ≤ 10 Ω (subject to local regulations).
- More detailed information is available in the installation manual

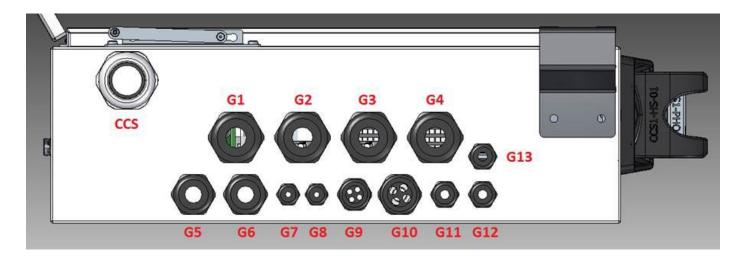


 $^{\scriptscriptstyle 1}\, \text{refer}$ to configuration options



HVC 150C E-Truck charger UL

Overview of cables coming to depot charge box



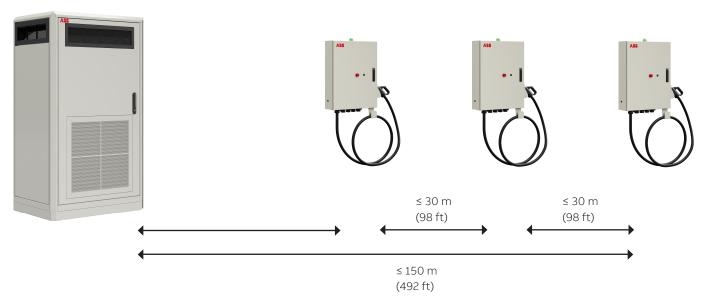
No	Signal	Wire	Gland dimensions	Cable specs	Gland nr
1	Charging cable	CCS1/2	CCS fi 33 - 38 mm	Provided with chargebox	ccs
2	DC+ In	1 X 350 MCM	22 - 32 mm	TF-Kable W-RHH-RHW-2-2000V, W350-1XT, 350 MCM note: 350 MCM with reinforced isolation > 5400 VDC	G3
3	DC- In	1 X 350 MCM	22 - 32 mm	As above	G1
4	DC+ Out	1 X 350 MCM	22 - 32 mm	As above	G4
5	DC- Out	1 X 350 MCM	22 - 32 mm	As above	G2
6	PE	1 X 6 AWG	fi 8-9 mm	OLFLEX 4160900 (Fi-OD: 8.9 mm)	G10
7	PE	1 X 6 AWG	fi 8-9 mm	OLFLEX 4160900 (Fi-OD: 8.9 mm)	G10
8	PE	1 X 2-8 AWG	fi 6-12 mm	OLFLEX 4161100 (2 AWG) (Fi-OD: 11.4 mm)	G11
9	AC input	3 X 14 AWG	fi 6-12 mm	OLFLEX 10019945 Fi-OD: 8.3 mm	G12
10	AC output	3 X 14 AWG	fi 6-12 mm	As above	G13
11	Interlock/Monitor In	2 X 2 X 19 AWG (Shielded Twisted Pair)	fi 8-9 mm	Lapp UniTronic LiYCY(TP) 0066262 Fi-OD = 8.7 mm	G10
12	Interlock/Monitor Out	2 X 2 X 19 AWG (Shielded Twisted Pair)	fi 8-9 mm	As above	G10
13	Ethernet In	Cat6 / Cat5e (Shielded Twisted Pair)	fi 5-10 mm		G7
14	Ethernet Out	Cat6 / Cat5e (Shielded Twisted Pair)	fi 5-10 mm		G8
15	Ext. EMO switch	4 X 20 AWG	fi 5-6 mm	OLFLEX classic 110 H, 4 X 20 AWG/ 10019904 Fi-OD: 5.8 mm	G9
16	Ext. Beacon	4 X 20 AWG	fi 5-6 mm	As above	G9
17	Ext. Start button	2 X 20 AWG	fi 5-6 mm	As above	G9
18	Spare		fi 5-6 mm		G9
19	Fiber-optic In	2 fibers (recommended 4 for spare)*	M32	OM3, pre-fabricated optical fiber	G5
20	Fiber-optic Out	2 fibers (recommended 4 for spare)	M32	OM3, pre-fabricated optical fiber	G6

^{* 4} fibers (recommended 8 for spare) for connection from HVC to first depot charge

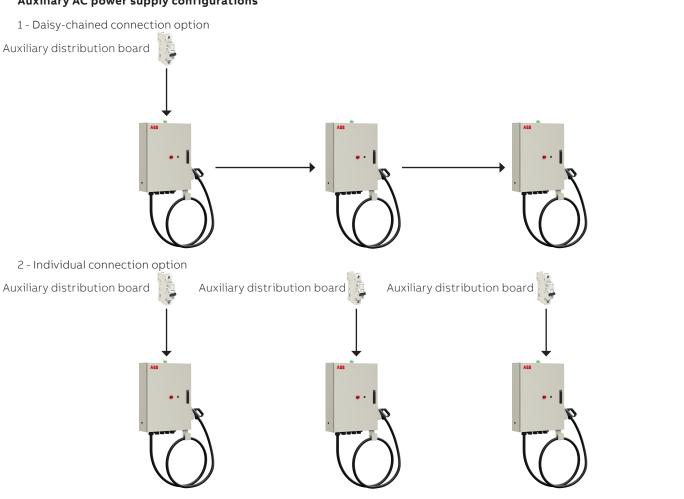


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Distance limitation



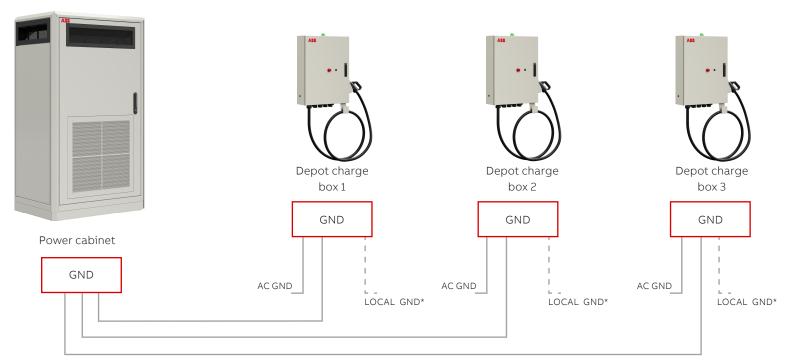
Auxiliary AC power supply configurations





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Proposed grounding scheme



^{*} if available LOCAL GND can be used instead of CABINET GND