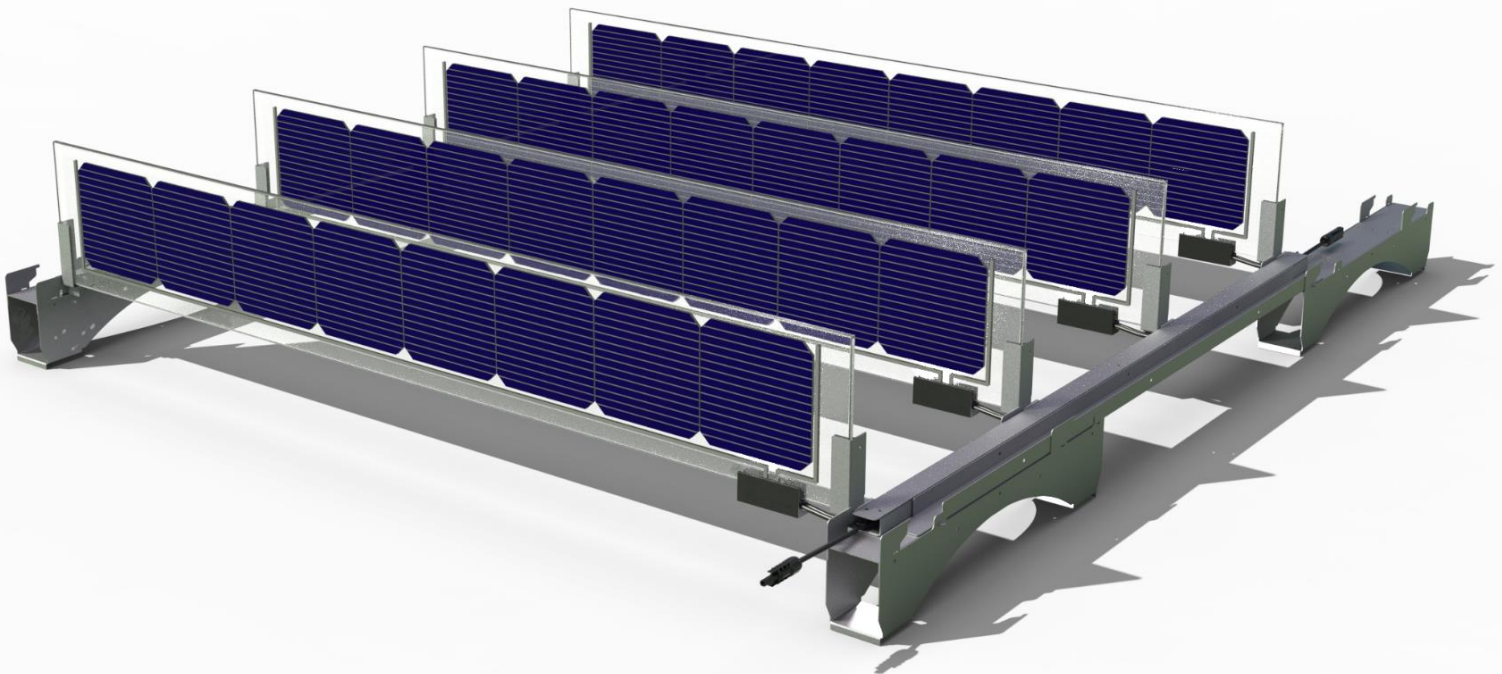


Over Easy Solar AS

Grounding



GROUNDING AND LIGHTNING PROTECTION

VPV installations should comply with all applicable local electrical codes and regulations including potential equalization, functional grounding, protective grounding and lightning protection. If regulations or an assessment of special local conditions require equipotential bonding or grounding, *Over Easy* recommends connecting the rows with a suitable electrical conductor (wire with terminals, steel band etc.) using the grounding holes marked on the end of each beam (see Figure 1). Therefore, use flat head, thread rolling/cutting (not self-drilling) screws with the correct diameter (grounding hole: Ø5mm, 1.2mm steel sheet) and a max. length of 15 mm. The tip of the screw should not be sharp to avoid cutting of the internal cables. Other grounding equipment like grounding clips etc. may also be used. Within the rows, the beams and feet have the necessary electrical continuity. All electrical connections must be installed by qualified electricians. The grounding method must not result in the direct contact of dissimilar metals to the structural frame, which could result in galvanic corrosion. Use adequate grounding cables to connect the structural frame of the units together. The grounding hardware must not damage critical parts of the VPV unit such as brackets, cables and solar panels.

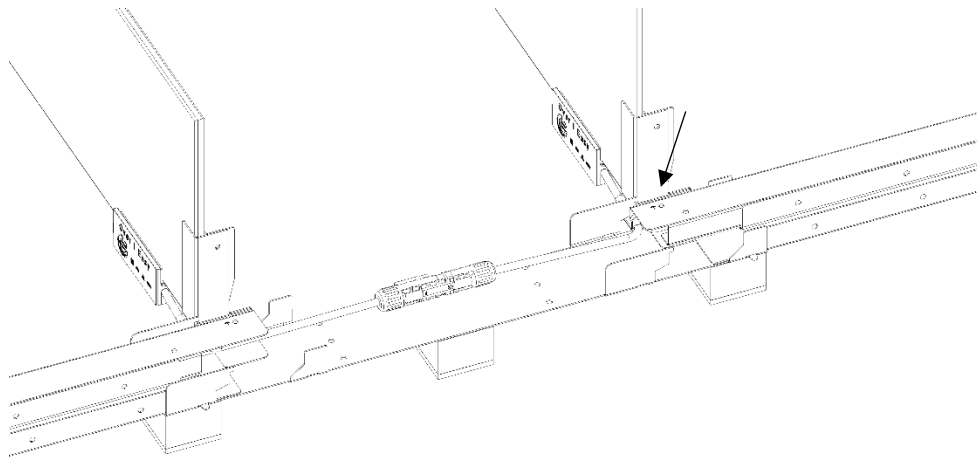
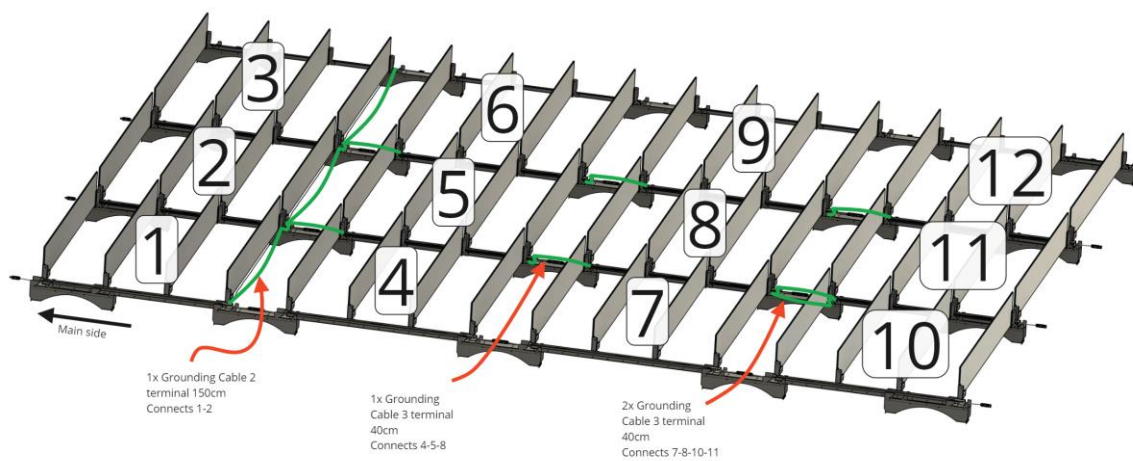
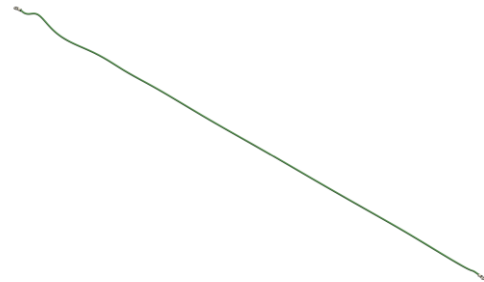
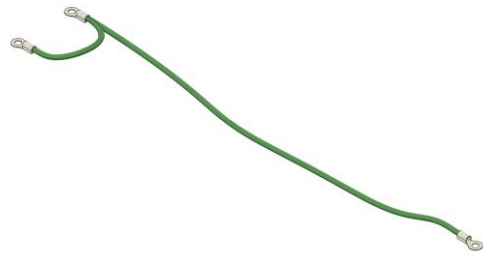


Figure 1: Marked grounding hole on one side of the beam

Overview

Grounding Cable
3 terminals, 40cm

Grounding Cable
2 terminals, 150cm

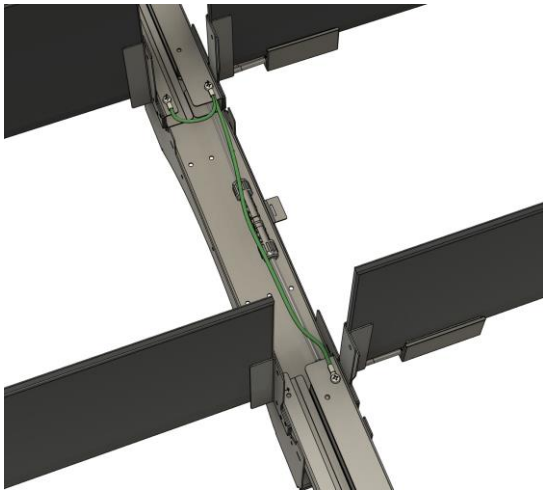


Details

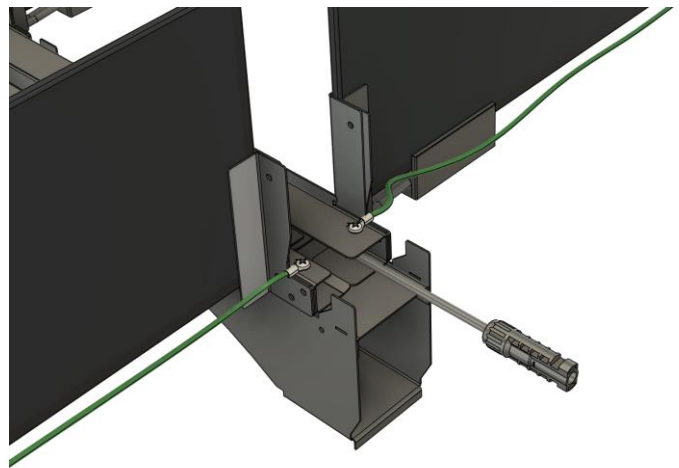
Grounding holes



Grounding Cable 3 terminals, 40cm



Grounding Cable 2 terminals, 150cm



Screw

Use flat head, thread rolling/cutting (not self-drilling) screws with the correct diameter (grounding hole: $\text{Ø}4.5\text{mm}$, 1.2mm steel sheet) and a max. length of 15 mm. The tip of the screw should not be sharp to avoid cutting of the internal cables. Other grounding equipment like grounding clips etc. may also be used.

The grounding method must not result in the direct contact of dissimilar metals to the structural frame, which could result in galvanic corrosion. (Zink coated steel)



Over Easy
Solar

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