ENNOGIE SUNSPOT

MOUNTING GUIDE

rev.01.1 - 20.11.23

CONTENT

1 Introduction

2 Mounting principles

3 FAQ

1. Introduction

V 1.0 | 17.11.2023

Sunspot is a compact and easy-to-install solar roof that can generate up to 3.12 kWp of renewable energy for your home. Sunspot is designed for small and medium-sized roofs, and it comes in three standard configurations: 2x12, 3x8 and 4x6 (rows x columns).

This mounting guide will help you to install your Sunspot system safely and correctly. Please read this guide carefully before you start the installation process. The guide will provide you with the following information:

- The components you will need for the installation.
- The steps and instructions you will follow to mount the Sunspot modules on your roof.
- The wiring and connection diagrams you will use to connect the Sunspot modules to the microinverters and the ECU (Energy Communication Unit).
- The safety precautions and tips you will follow to ensure a smooth and secure installation.

SPECIFICATIONS

Output pr. module	130W
Module size	1302 x 665 mm
Weight	13,5 kg
Celltype	Shingled Monocrystalline
Modules pr. Sunspot	24 modules
Total output	3.12 kW

CONFIGURATIONS

4x6

3x8

2x12

1.1 Items included in Sunspot

V 1.0 | 17.11.2023

MAIN COMPONENTS

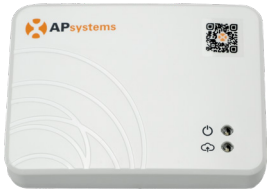
x24

130W ACTIVE PV MODULE

x3

DS3 MICRO INVERTER

x1



ECU

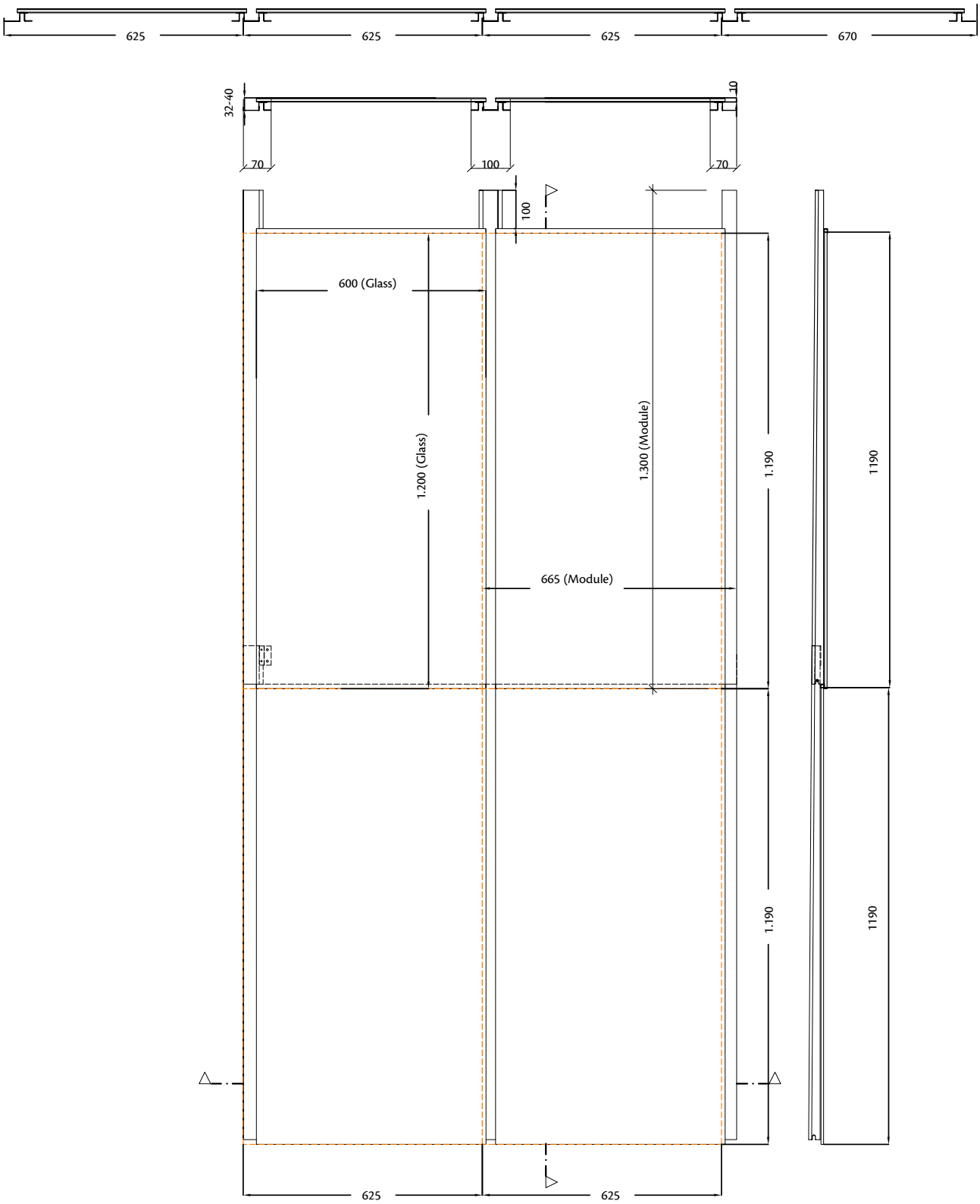
ROOFING COMPONENTS

	2X12	3X8	4X6
INVERTER TRAY	x3	x3	x3
FLASHING RIGHT	x2	x3	x4
FLASHING LEFT	x2	x3	x4
TRENCH PROFILE	x4	x6	x8
FRONT GRILL	x12	x8	x6
2-MODULE CABLE	x6	x4	-
Y3 AC BUS 2M	x1	x1	x1
YC-MC4 CAPS MALE	x12	x10	x6
YC-MC4 CAPS FEMALE	x12	x10	x6
4.8X35, TX20 SELF-DRILLING SCREWS	x100	x100	x100

1.2 Base Dimensions

V 1.0 | 17.11.2023

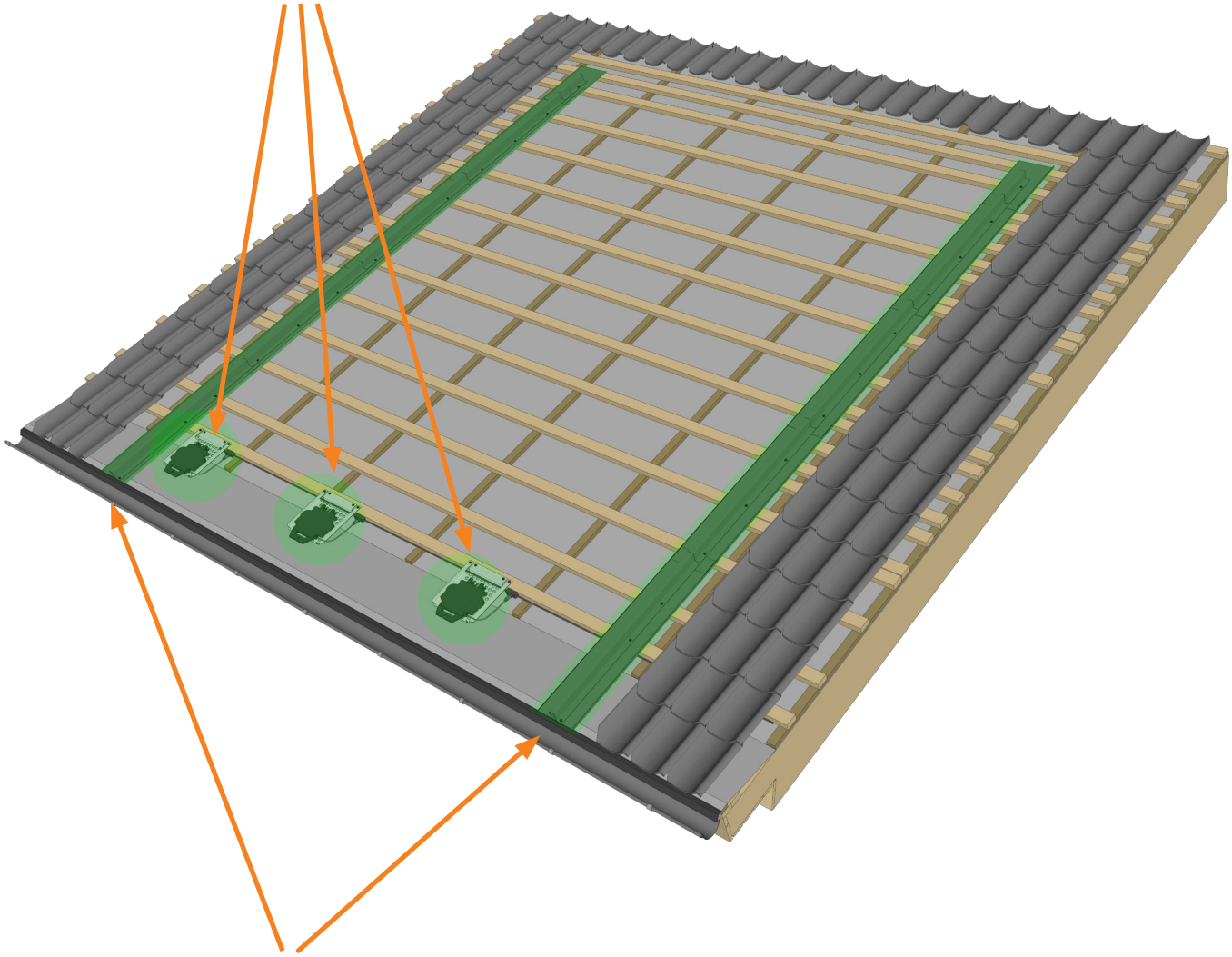
[mm]



2.1 Mounting principles

1. Mount inverter tray

The inverter trays are mounted at an evenly spaced out distance centered on the designated roof area for the Sunspot.



2. Flashing and trenches

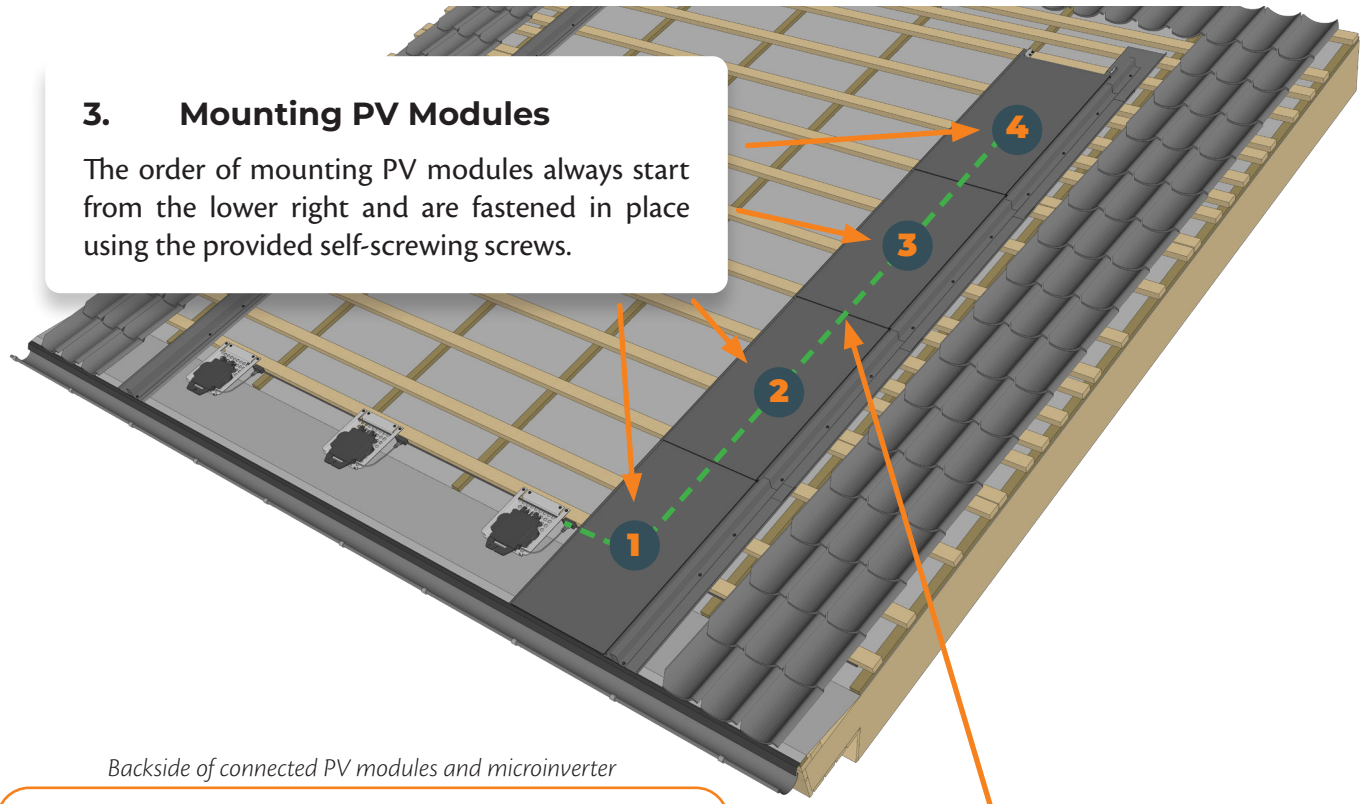
To the right of the second last tiles, the flashing and trenshes are installed. The last column of tiles is mounted after the PV modules are mounted.

2.1 Mounting principles

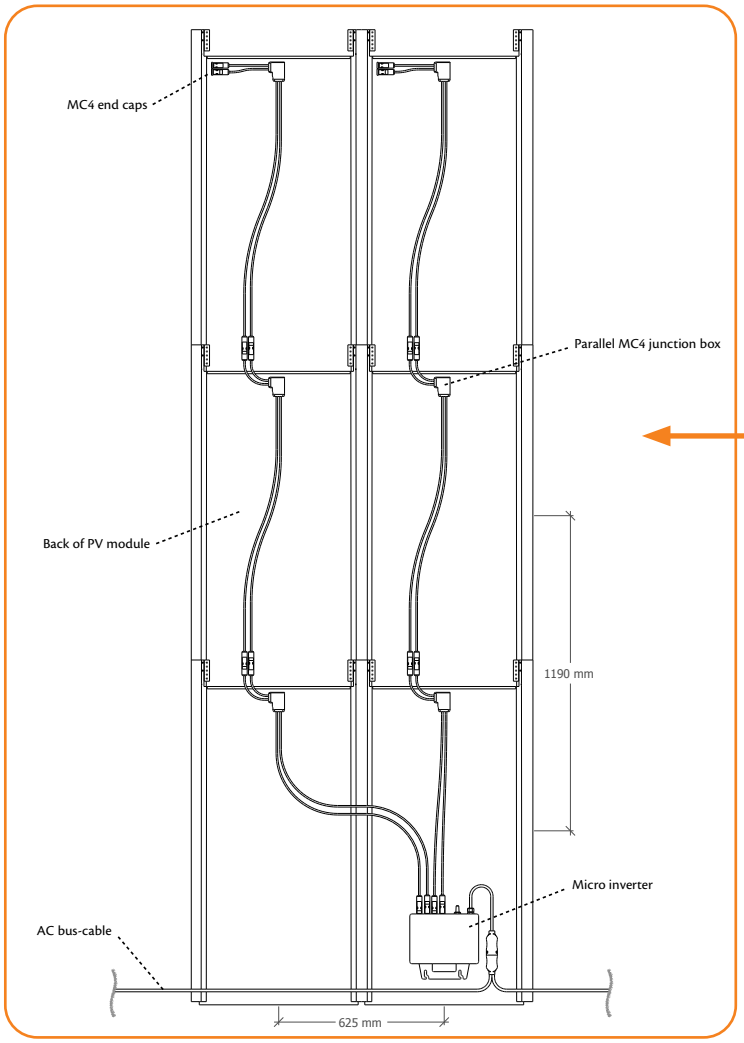
V 1.0 | 17.11.2023

3. Mounting PV Modules

The order of mounting PV modules always start from the lower right and are fastened in place using the provided self-screwing screws.



Backside of connected PV modules and microinverter



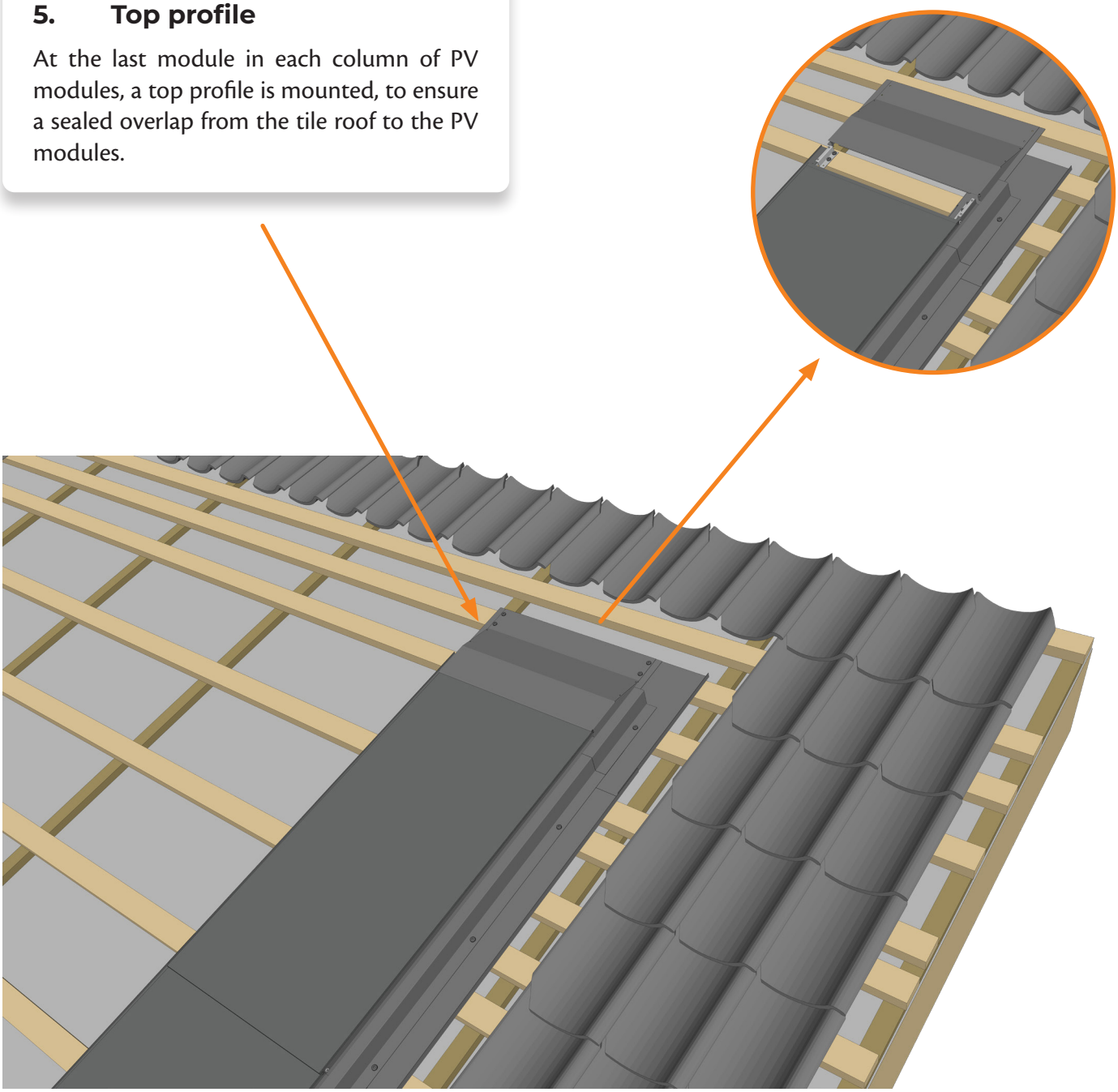
4. Connecting modules

During mounting of each PV module, the cables on the backside is connected together in series. First module (module 1 in this example) is connected to the first input of the inverter. The last module (module 4 in this example) has the short end cables capped with MC4 end caps.

2.1 Mounting principles

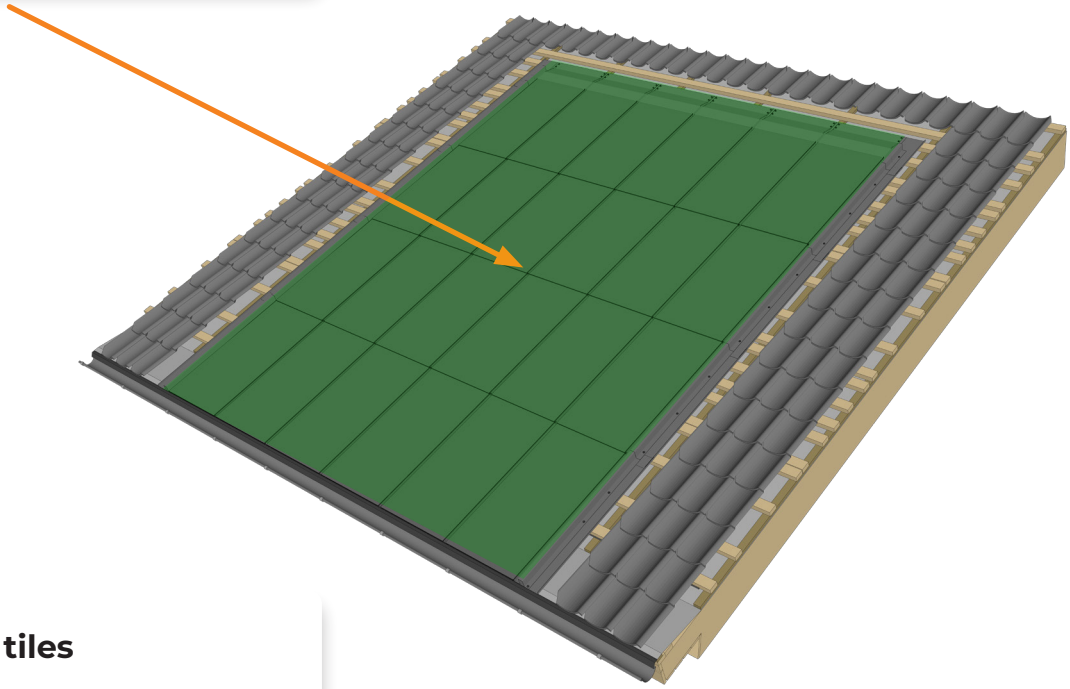
5. Top profile

At the last module in each column of PV modules, a top profile is mounted, to ensure a sealed overlap from the tile roof to the PV modules.



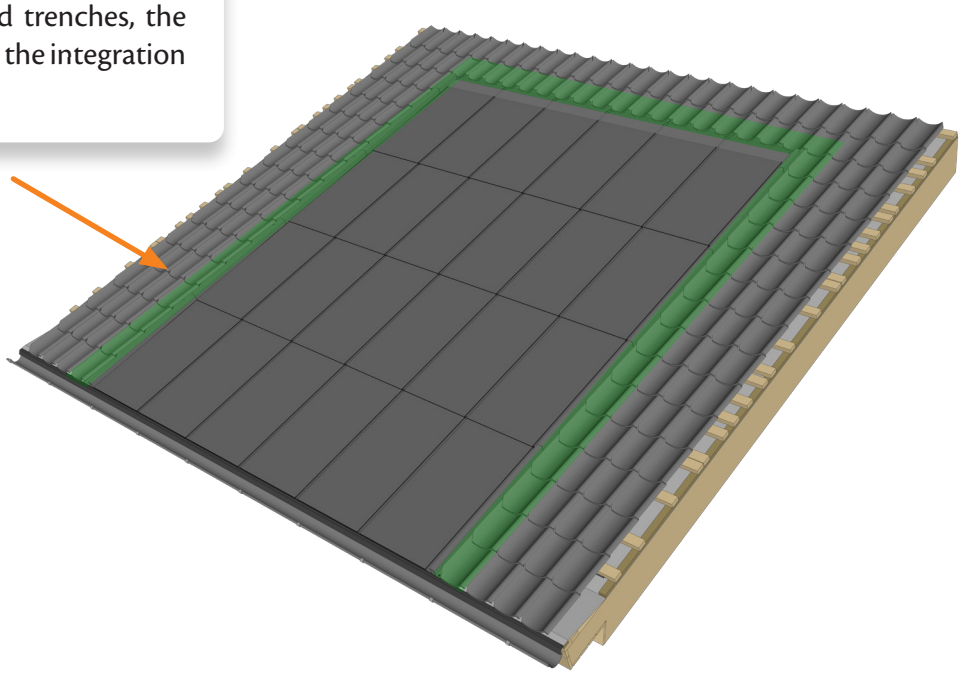
6. Mounting PV modules

Step 3 - 5 is repeated until the hole roof surface is covered with mounted PV modules.



7. Mounting tiles

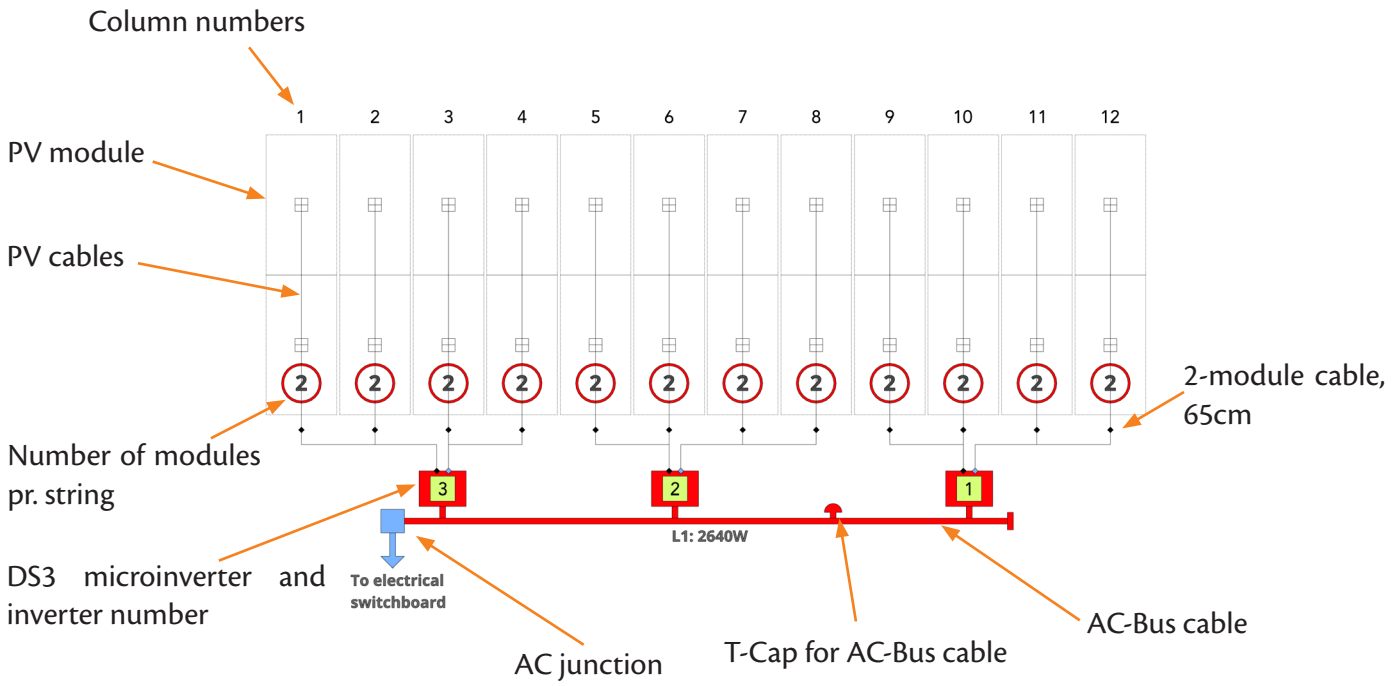
As the last step, the tiles surrounding the PV modules and its flashings and trenches, the tiles are mounted to complete the integration of PV modules into the roof.



2.2 Cable Plan

V 1.0 | 17.11.2023

Each configuration has its own cable plan layout and is provided in the shipment. Here is an example of how it looks and a description of the different components in it.



3.1 Frequently asked questions

Is fastflash or other eavees footing included?

No, this is not included in the standard Sunspot pallet. Here standard roofing components can be used of the roof installers choosing or they can be ordered from Ennogie. Please contact us for futher details.

Example of using fastflash.

Ennogie

CONTACT

Tel.: +45 6915 3990

Mail: info@ennogie.com