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The VPV Unit

Designed for flat roofs and green roofs, the Over Easy solar solution realizes energy production in a revolutionary way. The light-weighted PV-units can be easily installed on the roof and still enable full access for inspection, maintenance and repairs. The LM (low mounted) model is suitable for various material types of flat roofs. If your roof is covered with plants, Over Easy offers the HM (high mounted) model optimised for green roofs, such as sedum. The model enables plant thriving with solar installed and ensures biodiversity and water retention.

Green roof solution (HM)



Partial shading by panels reduces heat by up to **10° Celsius** and evaporation on the green roof, prevents dry-out during long periods without precipitation



Benefits from the lower temperature of the green environment for increased energy yields of up to **17%**



You can install or **retrofit** your green roof with solar without perforating roofing membranes or structure. Having full access to the roof makes it easy to inspect, maintain and repair

Flat roof solution (LM)



The lightweight system only adds **11 kg/m²**, making it easier to install on various types of roofs.



The roof's reflection (Albedo) can increase energy production by more than **30%** on bright surfaces.



Over Easy units give you **full access** to inspect, maintain and, if needed, repair the integrity of your flat roof.

Installation

The innovative premanufactured vertical solar unit streamlines transport and installation, providing a quicker and more efficient alternative to conventional solar panels. This prefabricated design ensures seamless integration and rapid deployment, revolutionizing solar energy solutions.



Easy to handle pre-assembled unit that integrates PV-modules, electrical cabling and mounting structure



One pallet covers 80 m² and provides 6.6 kWp



Plug and play with integrated cable management



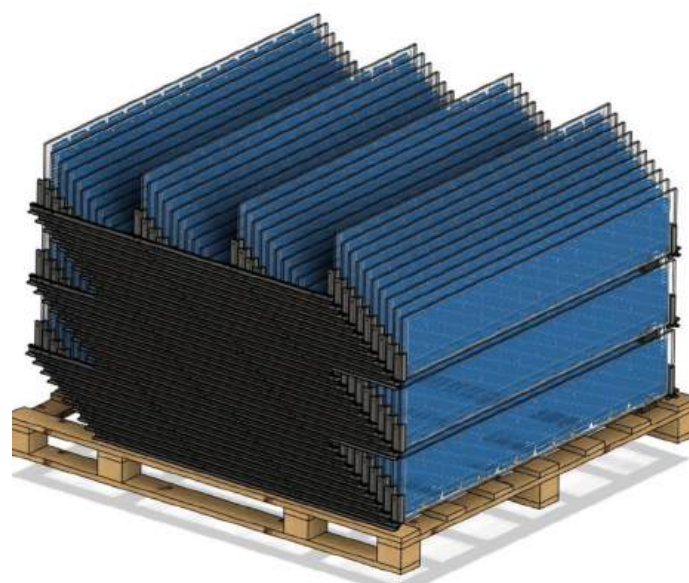
No tools needed for installation



Installation up to 10x faster with 15 min per kWp



Easy planning and logistics with 33 units on a pallet

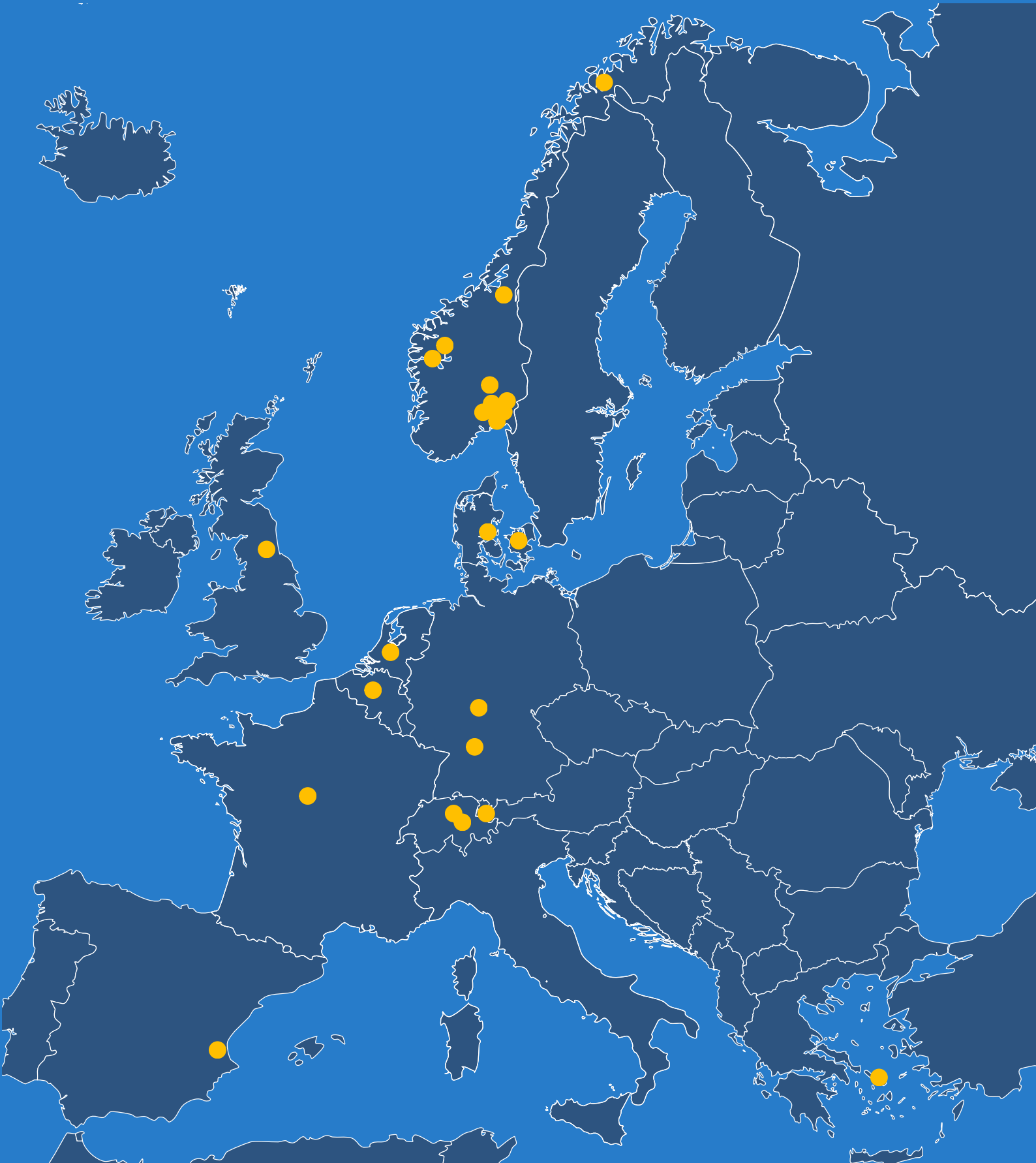


[Watch our installation guide video here](#) →



European Footprint

30 installations and sales in 11 European countries



Løren Skole

Oslo, Norway

- 46.2 kWp
- 206 Units
- HM Feet



Bilia Vollebekk

Oslo, Norway

- 102.2 kWp
- 511 Units
- HM Feet



Aker Tech House

Oslo, Norway

- 45.8 kWp
- 229 Units
- HM Feet



Lyngby

Lyngby, Denmark

- 8.8 kWp
- 44 Units
- HM Feet



Blussuvoll skole

Trondheim, Norway

- 50 kWp
- 250 Units
- HM Feet



Bühlstrasse

Beinwill am See, Switzerland

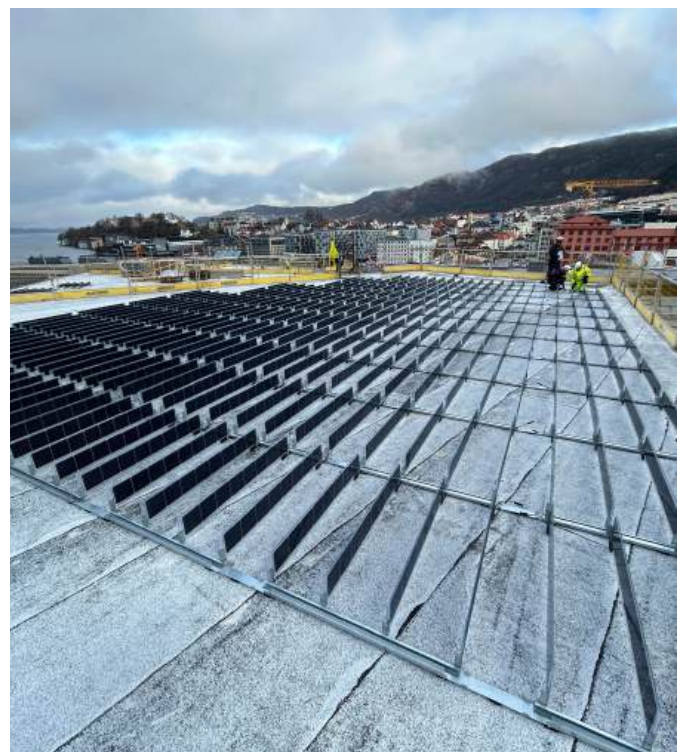
- 9 kWp
- 45 Units
- HM Feet



UIB Juss

Bergen, Norway

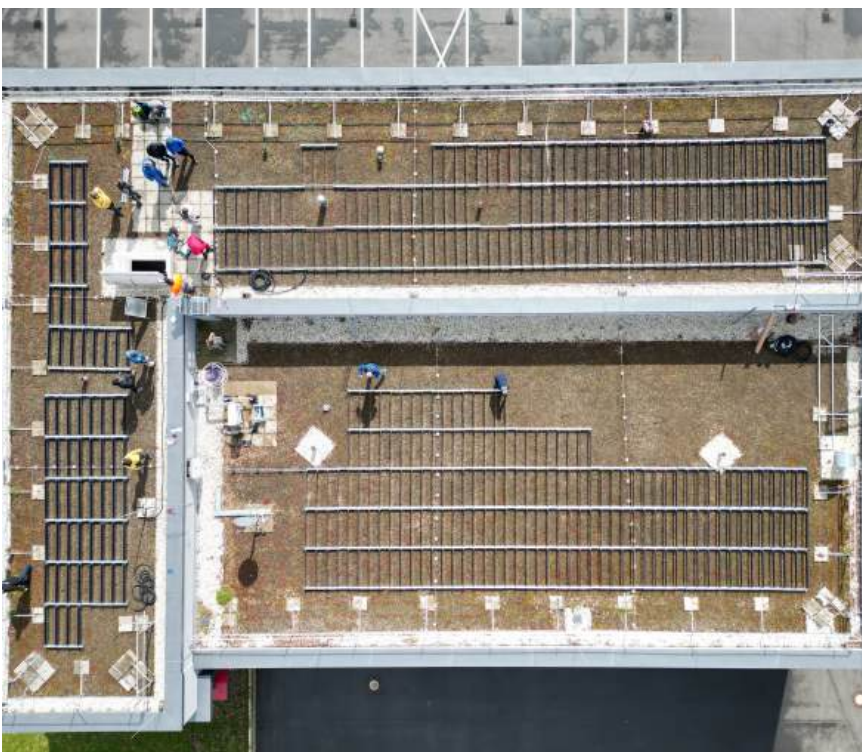
- 32.8 kWp
- 164 Units
- LM Feet



Wolfsanger Feuerwehr

Kassel, Germany

- 19.8 kWp
- 99 Units
- HM Feet



Industriestrasse

Hard, Austria

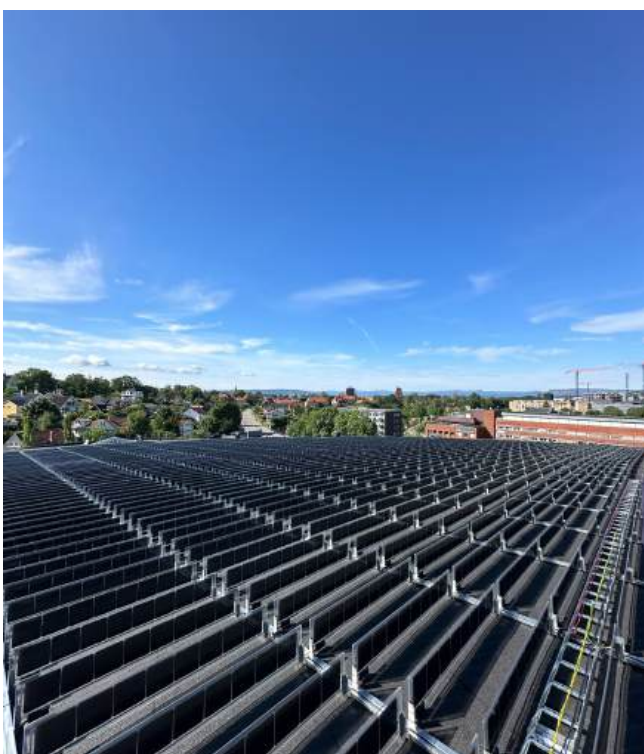
- 6.8 kWp
- 34 Units
- HM Feet



Ullevaal stadion

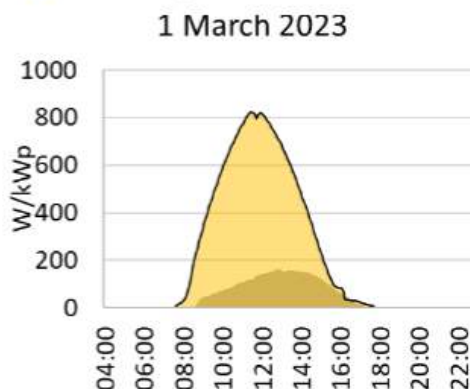
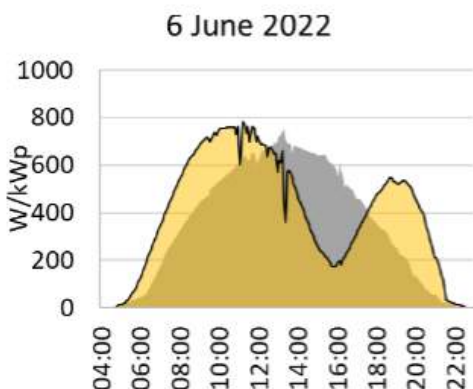
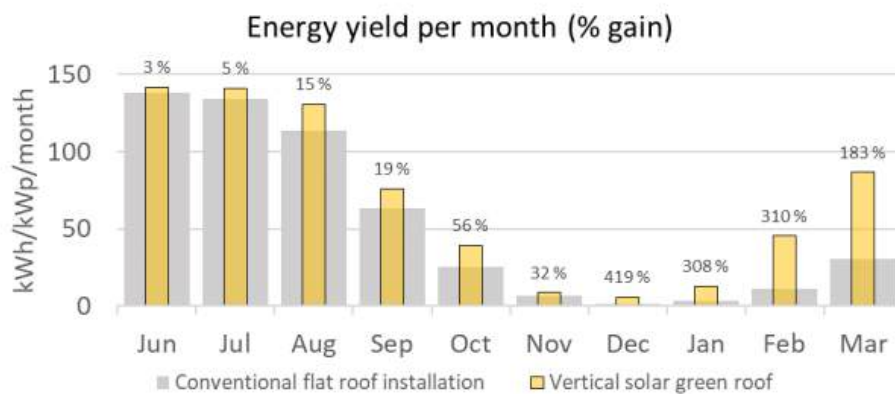
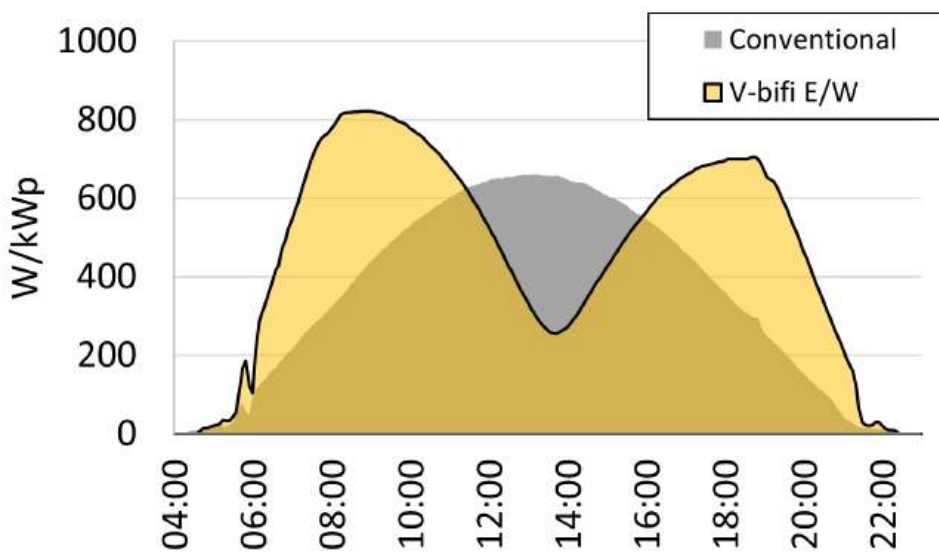
Oslo, Norway

- 248.4 kWp
- 1242 Units
- LM Feet



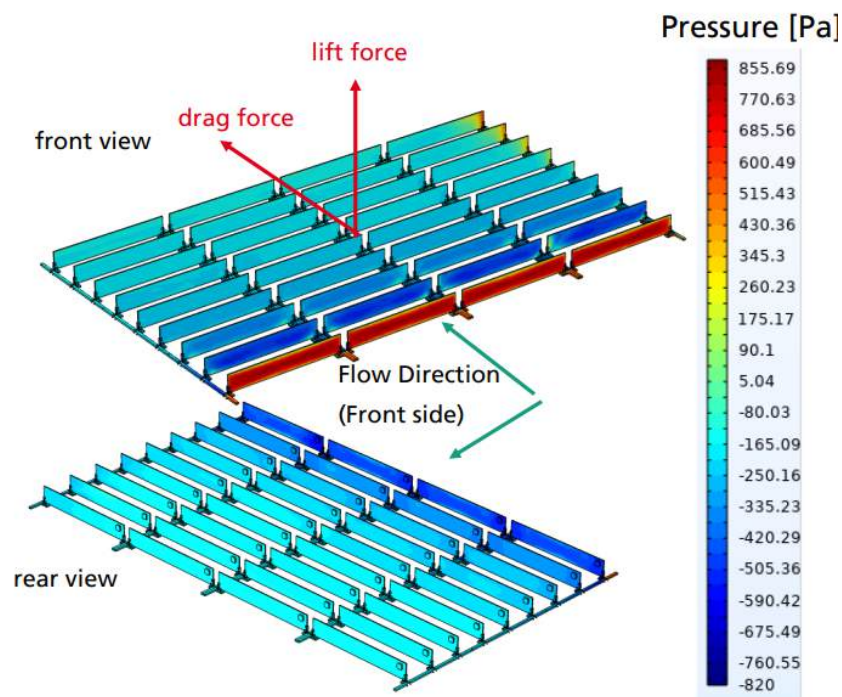
Energy Profile

The unique energy production profile with two peak production cycles a day, more productive hours during the year, and unmatched performance during winter and dusty conditions makes the Over Easy solution stand out compared to conventional solar energy systems! This design generates more energy in the morning and evening when electricity prices are higher and maximizes self-consumption.

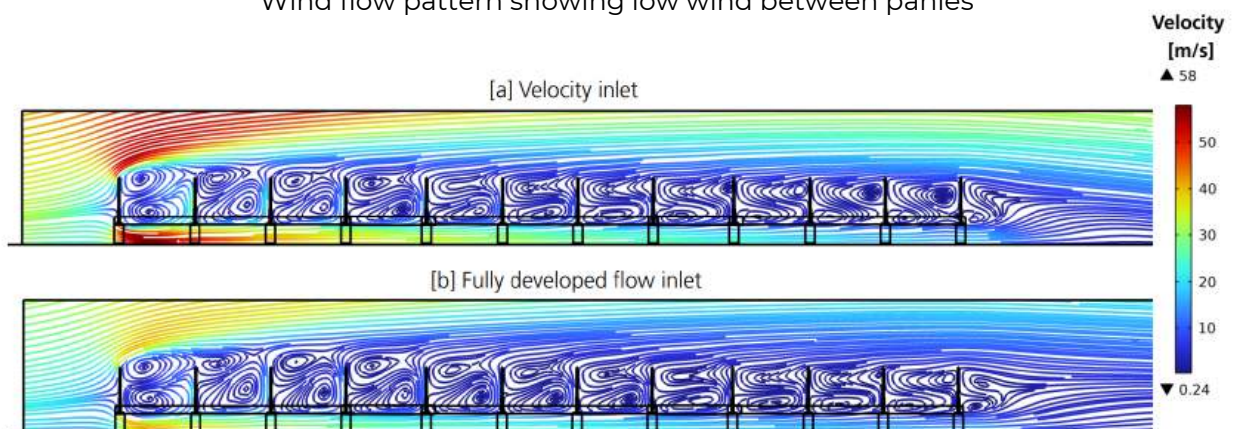


Wind Resistance

Our innovative solution eliminates the need for ballast and generates no lift force. Each project is meticulously calculated, taking into account the wind zone, terrain category, building dimensions, and PV array size. The system has been tested according to EN 1991-1-4 Wind Actions, the guidelines for actions on structures, in collaboration with the I.F.I. Institute for Industrial Aerodynamics and the Fraunhofer Institute.



Wind flow pattern showing low wind between panles



Fire Safety

The Over Easy solution significantly reduces the risk of fire spread. Unlike flat-panel systems, the vertical design of the VPV installation prevents flames from traveling underneath the panels and allows the roofing membrane to maintain its natural fire-resistant properties. As a result, the installation of Over Easy Solar panels does not increase fire risks on flat roofs, providing a safer solution for solar energy integration.



Fire test: Fire spread beneath low-angle panels but was contained with vertical ones.



Product Details

Mechanical Data

Dimensions:

- HM-2: 1580x1496x340 mm
- LM-2: 1580x1496x280 mm

Roof area covered per unit:

- 2.4 m²

Weight:

- HM-2: 26 kg, point load 71N
- LM-2: 25 kg, point load 64N

Tempered Glass:

- 2x3.2 mm solar glass with anti-reflection surface

Vertical clearance below modules:

- HM-2: 120 mm
- LM-2: 60 mm

Certificates

- IEC / EN 61215-1 2016,
- IEC 61215-2:2016 / EN 61215-2:2017
- IEC 61730-1:2016 / EN IEC 61730-1:2018
- UL 61730-1:2022
- IEC 61730-2:2016 / EN IEC 61730-2:2018
- UL 61730-2:2022
- IEC 62790:2020 / UL 3730:2014
- CE
- Wind load calculations: EN 1991-1-4, ASCE 7-22, NBCC 20

Warranty

Product Warranty:

- 15 years

Performance Warranty:

- Not less than 80% after 25 years.

Electrical Data

- Max. Power @ STC (P_{max}): 200 W
- Bifaciality: 95,7%
- Power Tolerance: ± 3 %
- Max. Power Voltage (V_{mpp}): 21.00 V
- Max. Power Current (I_{mpp}): 9.52 A
- Open-circuit Voltage (V_{oc}): 24.20 V ± 3%
- Short circuit Current (I_{sc}): 10.30 A ± 3 %
- Max. System Voltage (V_{sys}): 1000 V DC
- Reverse current rating: 20 A
- Cable: 4 mm² Solar Cable, 25 cm length
- Temperature coefficient of P_{max}: -0.26 %/K
- Temperature coefficient of V_{oc}: -0.27 %/K
- Temperature coefficient of I_{sc}: +0.055 %/K

Operating Condition

Cell Technology:

- Silicon Heterojunction Solar Cells

Operation Temperature:

- -40 °C ... + 85 °C

Fire Safety Class:

- C

Junction Box:

- IP-68,4x1 bypass diode

Connectors:

- IP-68, MC4 compatible

Sustainability



Sustainability is our primary concern, and it is why we founded the company. We have our feet on the ground, we personally inspect our suppliers' facilities, and we have clear guidelines on how our suppliers should source materials and inputs for manufacturing.



Tommy Engvik
CCO and co-founder



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