

Roofit.Solar

Double Seam 2023 Solar Roof Modules

3x10/145W/RR33/B/DS

Extremely Weatherproof

Our solar roof is equipped to withstand any weather condition, including snow, ice, hail, and wind.

2-in-1 solution

Combining roof and solar panel into one product (2-in-1) reduces material and labor costs for both manufacturing and installation.

Built to last

Premium quality materials and a strong metal backsheet.

Warranty

25-year power warranty and 10-year product warranty.

Ideal for Sloped Roofs

Ideal photovoltaic solution for sloped roofs with minimum pitch of 10°.

Dreamed in Europe. Made in Europe.

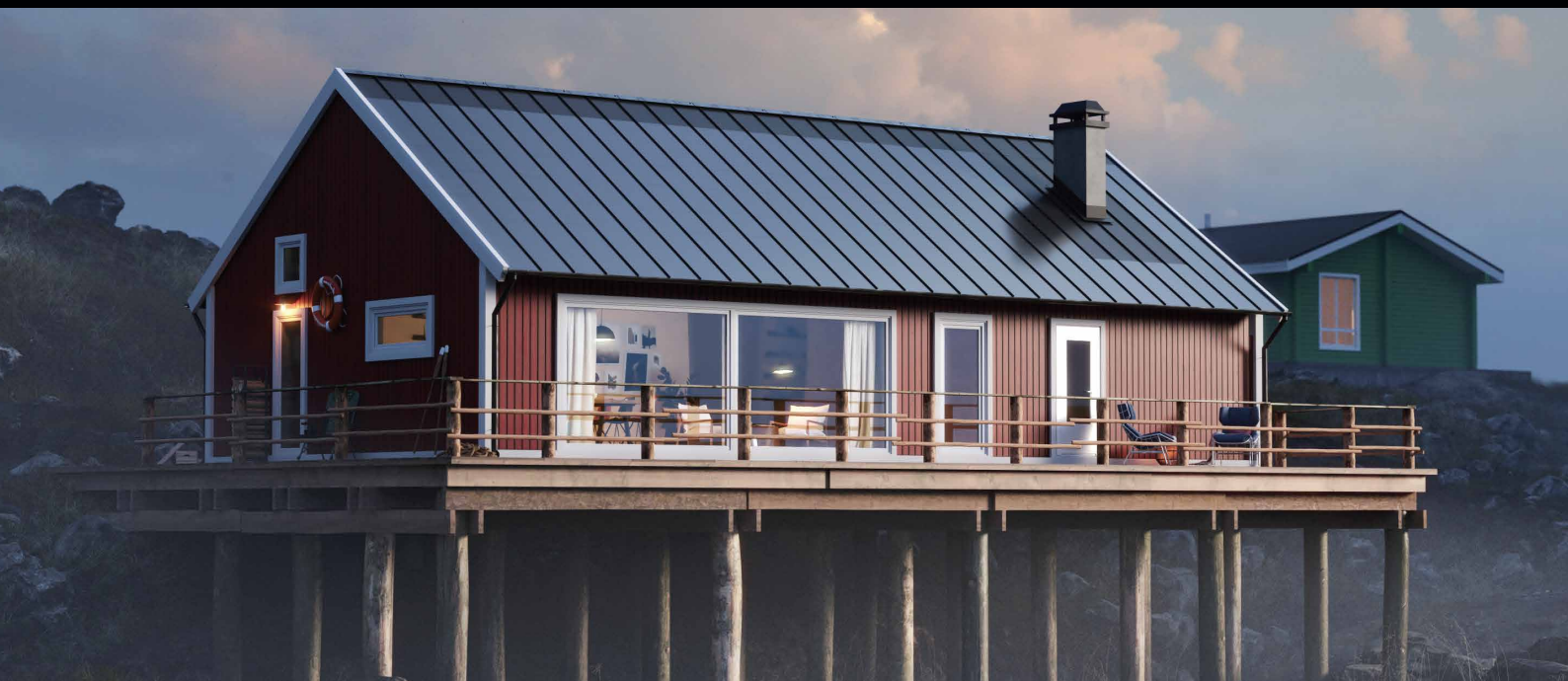
We commit to the highest quality and European standards in the production and installation of our solar roofs.

Tried-and- tested

Installed using traditional well-known double-lock standing seam roofing technology.

Timeless design

Accepted by authorities for protected and heritage buildings.



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Working Conditions

Maximum System Voltage	1000 VDC
Operating Temperature	-40 °C ... +85 °C
Maximum Series Fuse Rating	16A
Safety Class	Class II
Tested Positive Load	6000 Pa = 610 kg/m ²
Tested Negative Load	2400 Pa
Impact Resistance	Hailstone up to 25mm in size and at the speed of 23m/s
Minimum Ventilation Below	50 mm
Minimum Roof Slope	10 degrees

Mechanical Specifications

Cells	158,75 mm monocrystalline PERC 3x10 configuration
Front glass	3.2 mm tempered low-iron glass
Back sheet	0.5 mm galvanized steel with RR33 GreenCoat Pural BT coating
Encapsulant	POE
Junction boxes	3 bypass diodes, IP68, potted
Connectors	QC4.10
Cabels	4 mm ² H1Z2Z2-K solar cabel lenght 700 mm
Effective roof coverage	1698 mm x 550 mm
Mounting method	Double Seam technology
Weight	14.0 kg (pc) = 15.5 kg/m ² (installed)

Packing

Pacaking Configuration	32 modules per pallet
Pallet (LxWxH)	2050 x 1130 x 750mm

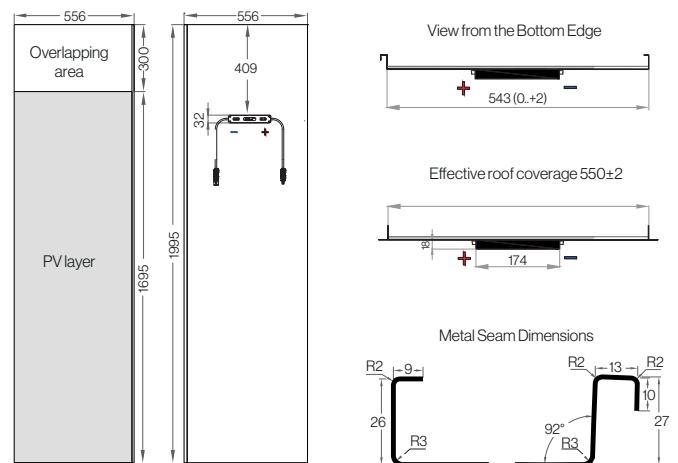
Certification

Designed to meet the requirements of following standards:
IEC 61215-1:2016 (PV Module Reliability)
IEC 61730-1:2016 (PV Module Safety)
EN 13501-5:2016 BROOF (t2) (Fire safety)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.



Engineering Drawings (units mm)



Electrical Characteristics

		STC ¹	NMOT ²
Nominal Power	P _{mpp} (W)	145	99.2
MPP Voltage	V _{mpp} (V)	16.5	14.7
MPP Current	I _{mpp} (A)	8.8	6.75
Open Circuit Voltage	V _{OC} (V)	20.2	18.4
Short Circuit Current	I _{SC} (A)	9.3	7.19

Power Tolerances ±3 %
 Current and Voltage Tolerances ±3 %

¹ Standard Test Conditions (irradiance 1000 W/m², cell temperature 25 °C, spectrum AM1.5)
² Nominal Module Operating Temperature (irradiance 800 W/m², air temperature 20 °C, wind 1 m/s, spectrum AM1.5)

Thermal Characteristics

Temperature Coefficient of	P _{mpp}	-0.363 % /C
Temperature Coefficient of	V _{OC}	-0.276 % /C
Temperature Coefficient of	I _{SC}	0.043 % /C