

Roofit.Solar

Double Seam Solar Roof Modules

3x10/135W/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	15 A

Thermal Characteristics

Temperature Coefficient of P_{mpp}	γ	-0.363%/K
Temperature Coefficient of V_{oc}	β	-0.276%/K
Temperature Coefficient of I_{sc}	α	0.043%/K

Electrical Characteristics

		STC ¹	NMOT ²
Nominal Power	P_{mpp} (W)	135	99.2
Power Tolerance		0...+5 W	
MPP Voltage	V_{mpp} (V)	15.8	14.7
MPP Current	I_{mpp} (A)	8.54	6.75
Open Circuit Voltage	V_{oc} (V)	19.9	18.4
Short Circuit Current	I_{sc} (A)	9.04	7.19

Power Measurement Tolerances ±3%
 Other Parameter Tolerances 0..5%

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)

Roofit.solar modules have been tested according to the following PV standards:

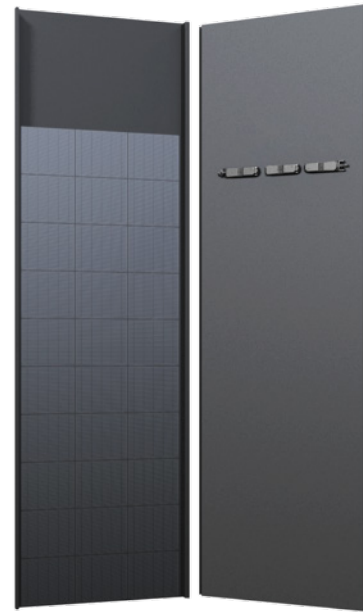
IEC 61215-1:2016/IEC 61215-1-1:2016/IEC 61215-2:2016 –
 Design qualification and type approval –
 modules are suitable for long-term operation in general open-air climates.

IEC 61730-1:2016/IEC 61730-2:2016 –
 PV module safety qualification – construction requirements for
 PV modules to provide safe electrical and mechanical operation.

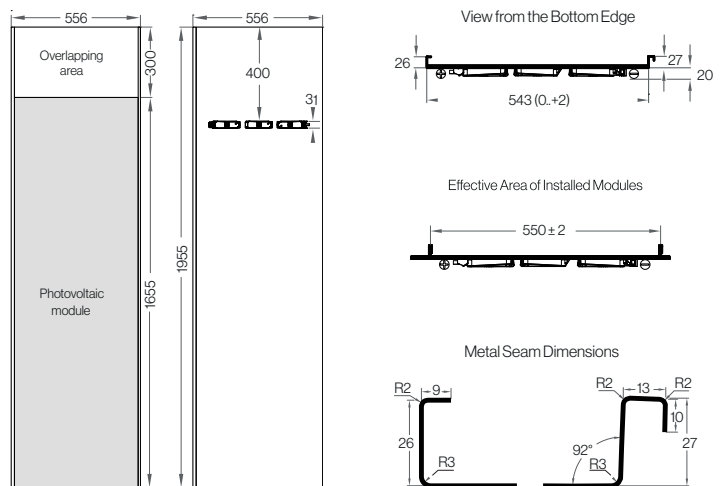
IEC 62716 – Ammonia corrosion testing
IEC 61701 – Salt mist corrosion testing

Fire safety [CEN TS 1187]: **EN 13501-5:2016 Broof(t2)**
 Electrical Shock Hazard: **EVS-EN IEC 61730-2:2018**

Metal parts are CE marked: **EN 14782:2006**



Engineering Drawings (units mm)



Mechanical Specifications

Cells	3 x 10 mono PERC
Junction boxes	Decentralized Three bypass diodes Protection class IP67 PV4 connections
Effective roof coverage	1658 mm x 550 mm
Mounting method	Double Seam technology
Weight	14.0 kg (pc) = 15.5 kg/m ² (installed)
Front glass	3.2 mm tempered low-iron glass
Back sheet	0.5 mm metal sheet with highly durable Pural coating
Impact resistance	d = 35 mm hailstone 46 m/s = 165.5 km/h
Minimum roof slope	10 degrees
Minimum ventilation below	50 mm