

Roofit.Solar

# Click Solar Roof Modules

4x12/235W/RR33/B/RC

## 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.

## Easy to Install

Click-on seaming makes the installation process easier and faster.

## 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 $P_{mpp}$	$\gamma$	-0.39 %/K
Temperature Coefficient of $V_{oc}$	$\beta$	-0.3% /K
Temperature Coefficient of $I_{sc}$	$\alpha$	0.06 % /K

## Electrical Characteristics

		STC <sup>1</sup>	LIC <sup>2</sup>
Nominal Power	$P_{mpp}$ (W)	235	46
MPP Voltage	$V_{mpp}$ (V)	26.5	27.2
MPP Current	$I_{mpp}$ (A)	8.9	1.7
Open Circuit Voltage	$V_{oc}$ (V)	32.4	30.7
Short Circuit Current	$I_{sc}$ (A)	9.3	1.87

Current and voltage tolerances  $\pm 3\%$   
 Power Tolerance  $\pm 3\%$

<sup>1</sup> Standard Test Conditions (irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, spectrum AM1.5)  
<sup>2</sup> Low Irradiance Conditions (irradiance 200 W/m<sup>2</sup>, cell temperature 25 °C, spectrum AM1.5)

## 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)

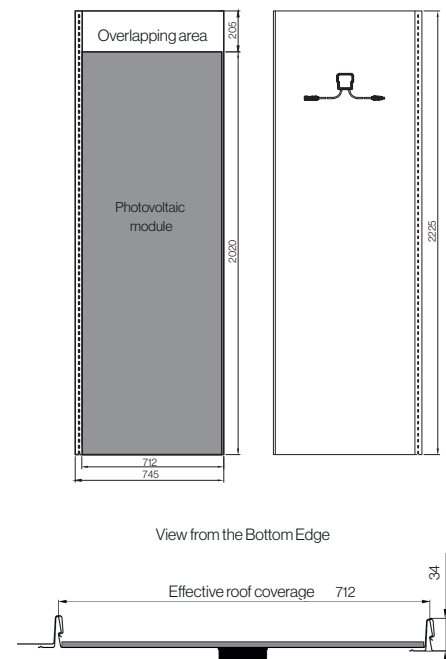
CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS  
 BEFORE USING THE PRODUCT.



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Engineering Drawings (units mm)



## Mechanical Specifications

Cells	4 x 12 mono PERC
Junction boxes	Two bypass diodes protection class IP68 MC4 EVO2 connectors
Effective roof coverage	2023 mm x 712 mm
Mounting method	Click (Ruukki Classic C)
Weight	24.0 kg (pc) = 17.0 kg/m <sup>2</sup> (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