

# Roofit.Solar

# Velario<sup>®</sup>

## 115/3x8/001

### 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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**Contact** Roofit Solar Energy OÜ Härgmäe  
21, Tallinn 13525, Estonia  
<http://roofit.solar>  
[info@roofit.solar](mailto:info@roofit.solar)

## Working Conditions

Maximum System Voltage	1000 V DC
Operating Temperature	-40 °C ... +85 °C
Maximum Series Fuse Rating	16A
Safety Class	Class II
Tested Positive Load	208 psf
Tested Negative Load	146 psf
Impact Resistance	HW4 - hailstone up to 1.5 in in size
Minimum Ventilation Below	1.96 in
Minimum Roof Pitch	2/12

## Mechanical Specifications

Cells	6.25 in monocrystalline PERC 3x8 configuration
Front glass	0.126 in tempered low-iron glass
Back sheet	0.0196 in galvanized steel with RR33 GreenCoat Pural BT coating
Encapsulant	POE
Junction boxes	3 bypass diodes, IP68, potted
Connectors	QC4.10
Cables	12 AWG H1Z2Z2-K solar cable length 27 in
Effective roof coverage	54.2 x 21.6 in
Mounting method	Double Seam technology
Weight	26 lbs (pc) = 3.28 lbs/ft <sup>2</sup> (installed)

## Packing

Packaging Configuration	32 modules per pallet
Pallet (LxWxH)	68.8 x 44.5 x 30.7 in

## Certification

**IEC/UL/CSA 61215-1:2021** (PV Module Reliability)

**IEC/UL/CSA 61730-1:2016** (PV Module Safety)

**Fire type 34** (According to UL 61730-2)

**EN 13501-5:2016** (Fire safety)

Roof (t1) by GTC

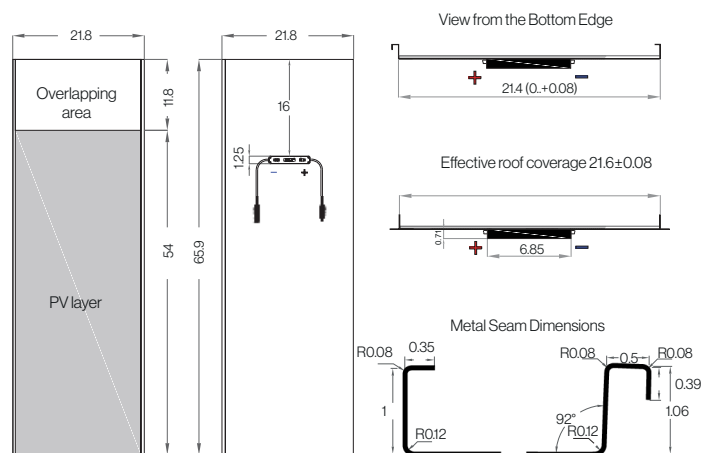
Roof (t2) by Eurofins Expert Services Oy



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



## Engineering Drawings (units in)



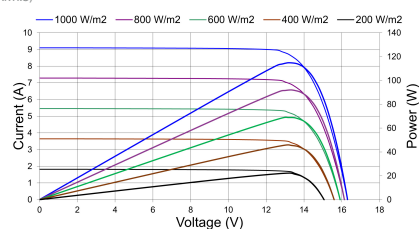
## Electrical Characteristics

		STC <sup>1</sup>	NMOT <sup>2</sup>
Nominal Power	P <sub>mpp</sub> (W)	<b>115</b>	80.8
MPP Voltage	V <sub>mpp</sub> (V)	<b>13.2</b>	11.9
MPP Current	I <sub>mpp</sub> (A)	<b>8.7</b>	6.78
Open Circuit Voltage	V <sub>oc</sub> (V)	<b>16.3</b>	14.7
Short Circuit Current	I <sub>sc</sub> (A)	<b>9.35</b>	7.24
Module efficiency	η (%)	<b>15.9</b>	

Power Tolerances ±3%

Current and Voltage Tolerances ±3%

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



## Thermal Characteristics

Temperature Coefficient of	P <sub>mpp</sub>	-0.363 %/K
Temperature Coefficient of	V <sub>oc</sub>	-0.276 %/K
Temperature Coefficient of	I <sub>sc</sub>	0.043 %/K