

Velario® Slim



Dual-Function: Roof & Photovoltaics
Designed and Developed in Europe
Quality assured through third-party testing
17 kg/m² - 30% less than common system
Engineered for High Snow Load
Tier 1 TOPCon cells



Double Seam: 100 - Year Heritage
Exceptional Wind & Water Protection



Certificates

IEC 61215:2021 (PV Module Reliability)

IEC 61730:2023 (PV Module Safety)

MCS 005 (Product certification for UK market)

MCS 010 (Production control for UK market)

EN 13501-5:2016 (Fire safety)

Broof (t1) by GTC

Broof (t2) by Eurofins Expert Services Oy



reddot winner 2025
sustainable design

2025 WINNER
**EUROPEAN
PRODUCT
DESIGN
AWARD**



Module name:

Velario Slim

Specification 1:

T-2x18/180

Specification 2:

CP/0.5/GLO/9005

HDX/0.5/GLO/9005

Contact

Roofit Solar Energy OÜ

Härgmäe 21, Tallinn 13525, Estonia

<http://roofit.solar>info@roofit.solar**Working****Conditions**

Maximum System Voltage	1000 V
Ambient Temperature	-40 °C ... +40 °C
Maximum Series Fuse Rating	25A
Safety Class	Class II
Tested Positive Load	10 000 Pa = 1020 kg/m ²
Tested Negative Load	4500 Pa
Impact Resistance	HW4 - hailstone up to 40 mm in size
Minimum Roof Slope	10 degrees

Mechanical**Specifications**

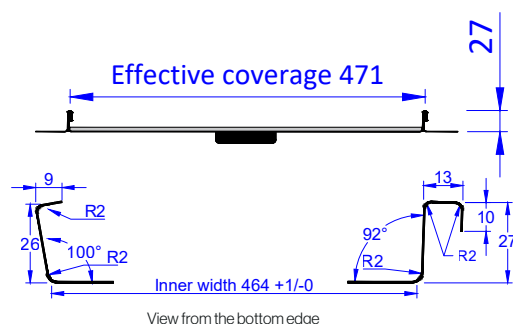
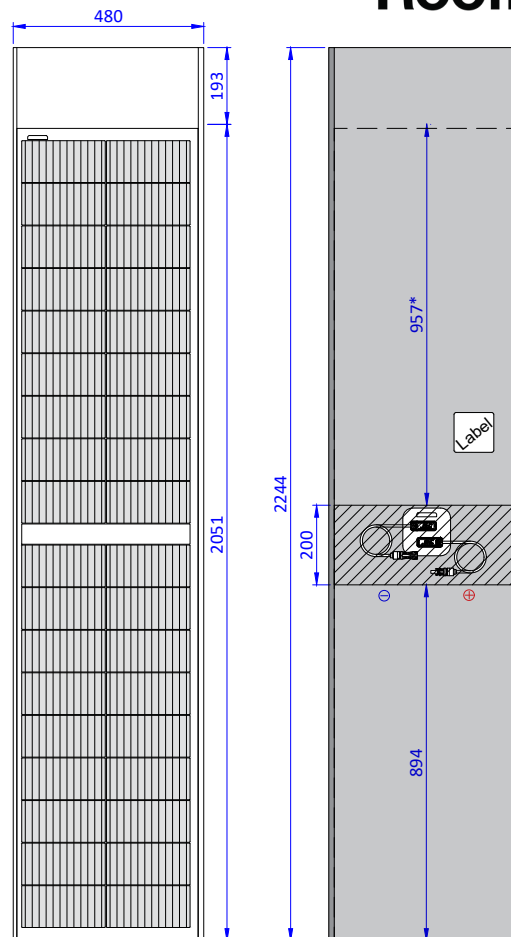
Cells	210 mm monocrystalline TOPCon 2x18 configuration
Encapsulant	POE
Front glass	3.2 mm tempered low-iron glass
Roofing material	
Specification 1	0.5 mm steel S280GD 255 g/m ² zinc-aluminium galvanized 65 µm Colorcoat Prisma RAL 9005 Gloss level 40 GU
Specification 2	0.5 mm steel HX220YD 275 g/m ² zinc galvanized 55 µm Granite HDX RAL 9005 Gloss level 30 GU
Junction boxes	2 bypass diodes, IP68, potted
Connectors	Stäubli MC4-Evo 2
Cables	4 mm ² H1Z2Z2-K solar cable length 500 mm
Effective roof coverage	2051 mm x 471 mm
Mounting method	Double Seam
Weight	16.5 kg (pc) = 17.0 kg/m ² (installed)

Packing

Packing Configuration	40 modules per pallet
Pallet (LxWxH)	2335 x 1105 x 840 mm
Pallet weight	770 kg

Thermal**Characteristics**

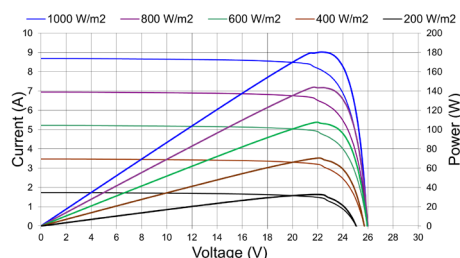
Temperature Coefficient of	P _{mpp}	-0.334 %/K
Temperature Coefficient of	V _{oc}	-0.259 %/K
Temperature Coefficient of	I _{sc}	0.049 %/K

**Electrical****Characteristics**

* Standard Test Conditions (irradiance 1000 W/m ² , cell temperature 25 °C, spectrum AM1.5)		STC*
Nominal Power	P _{mpp} (W)	180
MPP Voltage	V _{mpp} (V)	22.8
MPP Current	I _{mpp} (A)	7.9
Open Circuit Voltage	V _{oc} (V)	26.5
Short Circuit Current	I _{sc} (A)	8.4
Module efficiency	η (%)	19.1

Power Tolerances ±3 %

Current and Voltage Tolerances ±3 %



Module name: **Velario Slim**
 Specification 1: **T-2x12/120**
 Specification 2: CP/0.5/GLO/9005
 HDX/0.5/GLO/9005

Contact

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 Härgmäe 21, Tallinn 13525, Estonia
<http://roofit.solar>
info@roofit.solar

Workingl

Conditions

Maximum System Voltage	1000 V
Ambient Temperature	-40 °C ... +40 °C
Maximum Series Fuse Rating	25A
Safety Class	Class II
Tested Positive Load	10 000 Pa = 1020 kg/m ²
Tested Negative Load	4500 Pa
Impact Resistance	HW4 - hailstone up to 40 mm in size
Minimum Roof Slope	10 degrees

Mechanical

Specifications

Cells	210 mm monocrystalline TOPCon 2x12 configuration
Encapsulant	POE
Front glass	3.2 mm tempered low-iron glass
Roofing material	
Specification 1	0.5 mm steel S280GD 255 g/m ² zinc-aluminium galvanized 65 µm Colorcoat Prisma RAL 9005 Gloss level 40 GU
Specification 2	0.5 mm steel HX220YD 275 g/m ² zinc galvanized 55 µm Granite HDX RAL 9005 Gloss level 30 GU
Junction boxes	2 bypass diodes, IP68, potted
Connectors	Stäubli MC4-Evo 2
Cables	4 mm ² H1Z2Z2-K solar cable length 500 mm
Effective roof coverage	1409 mm x 471 mm
Mounting method	Double Seam
Weight	11.3 kg (pc) = 17.0 kg/m ² (installed)

Packing

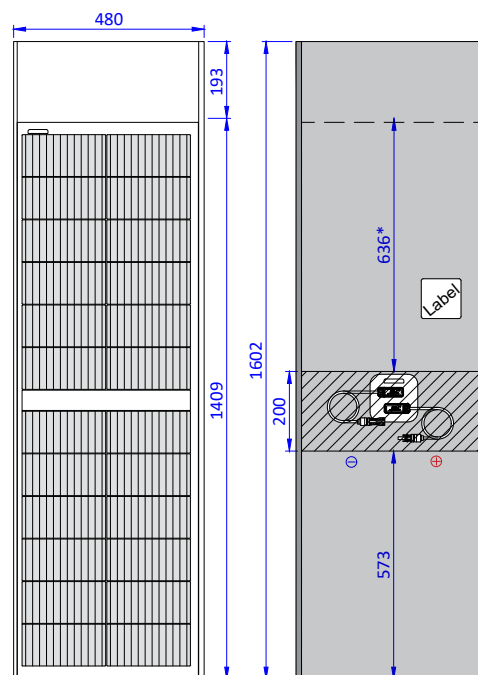
Packing Configuration	40 modules per pallet
Pallet (LxWxH)	1690 x 1105 x 840 mm
Pallet weight	540 kg

Thermal

Characteristics

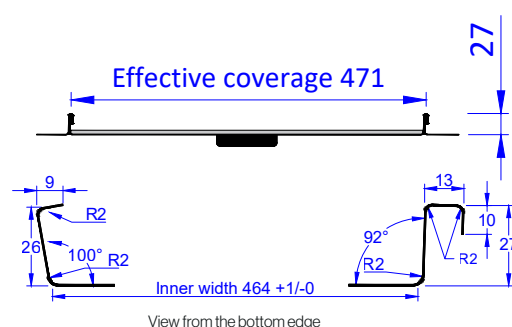
Temperature Coefficient of	P _{mpp}	-0.334 % /K
Temperature Coefficient of	V _{oc}	-0.259 % /K
Temperature Coefficient of	I _{sc}	0.049 % /K

Engineering drawings (units in mm)



▨ No batten zone

* Gap of 10 mm between 2 modules included



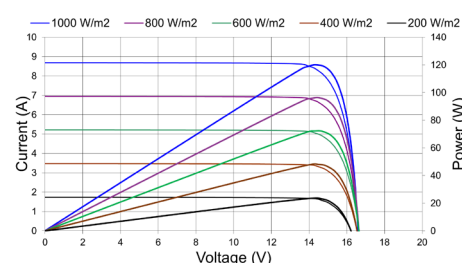
Electrical

Characteristics

		STC*
Nominal Power	P _{mpp} (W)	120
MPP Voltage	V _{mpp} (V)	15.2
MPP Current	I _{mpp} (A)	7.9
Open Circuit Voltage	V _{oc} (V)	17.6
Short Circuit Current	I _{sc} (A)	8.4
Module efficiency	η (%)	18.6

Power Tolerances ±3 %

Current and Voltage Tolerances ±3 %



Module name:

Velario Slim SG

Specification 1:

T-2x12/120

Specification 2:

CP/0.5/GLO/9005/SG

HDX/0.5/GLO/9005/SG

Contact

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Workingl

Conditions

Maximum System Voltage	1000 V
Ambient Temperature	-40 °C ... +40 °C
Maximum Series Fuse Rating	25A
Safety Class	Class II
Tested Positive Load	10 000 Pa = 1020 kg/m ²
Tested Negative Load	4500 Pa
Impact Resistance	HW4 - hailstone up to 40 mm in size
Minimum Roof Slope	10 degrees

Mechanical

Specifications

Cells	210 mm monocrystalline TOPCon 2x12 configuration
Encapsulant	POE
Front glass	3.2 mm tempered low-iron glass
Roofing material	
Specification 1	0.5 mm steel S280GD 255 g/m ² zinc-aluminium galvanized 65 µm Colorcoat Prisma RAL 9005 Gloss level 40 GU
Specification 2	0.5 mm steel HX220YD 275 g/m ² zinc galvanized 55 µm Granite HDX RAL 9005 Gloss level 30 GU
Junction boxes	2 bypass diodes, IP68, potted
Connectors	Stäubli MC4-Evo 2
Cables	4 mm ² H1Z2Z2-K solar cable length 500 mm
Effective roof coverage	2026 mm x 471 mm
Mounting method	Double Seam
Weight	13.5 kg (pc) = 14.2 kg/m ² (installed)

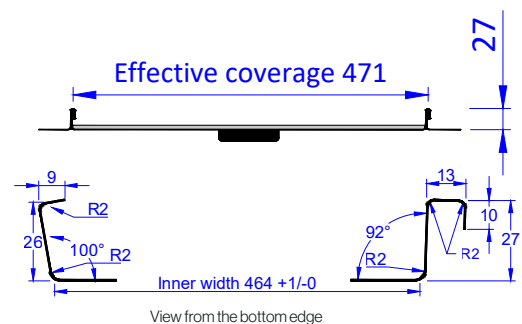
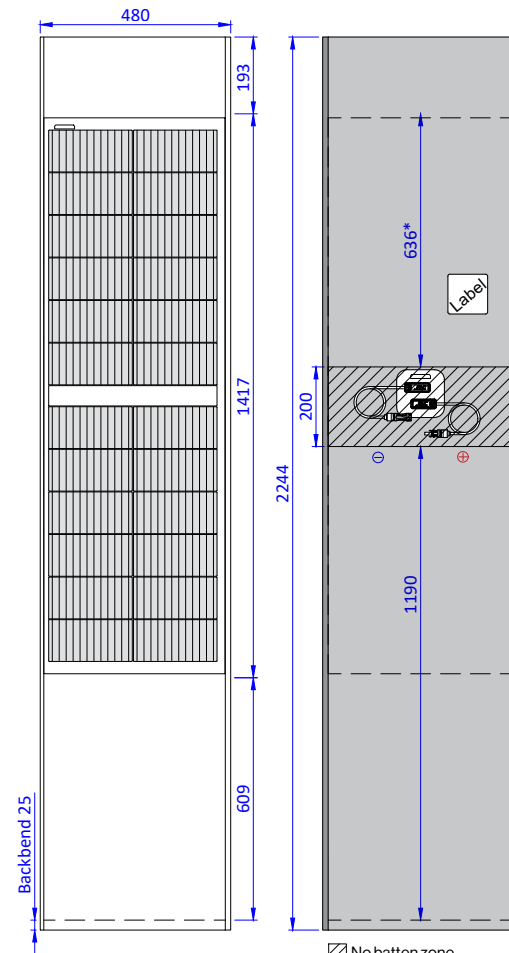
Packing

Packing Configuration	40 modules per pallet
Pallet (LxWxH)	2335 x 1105 x 840 mm
Pallet weight	650 kg

Thermal

Characteristics

Temperature Coefficient of	P _{mpp}	-0.334 % /K
Temperature Coefficient of	V _{oc}	-0.259 % /K
Temperature Coefficient of	I _{sc}	0.049 % /K



Electrical

Characteristics

		STC*
Nominal Power	P _{mpp} (W)	120
MPP Voltage	V _{mpp} (V)	15.2
MPP Current	I _{mpp} (A)	7.9
Open Circuit Voltage	V _{oc} (V)	17.6
Short Circuit Current	I _{sc} (A)	8.4
Module efficiency	η (%)	18.6

Power Tolerances ±3 %

Current and Voltage Tolerances ±3 %

