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Velario® Slim

- Dual-Function: Roof & Photovoltaics
- Designed and Developed in Europe
- Quality assured through third-party testing
- 16 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
Broof (t4) by Efectis

reddot winner 2025
sustainable design

2025 WINNER
EUROPEAN PRODUCT DESIGN AWARD

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Module name:	**Velario Slim** **T-2x18/180**
Specification 1:	CP/0.5/GLO/9005
Specification 2:	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	25 A
Safety Class	Class II
Tested Positive Load	10 000 Pa = 1020 kg/m²
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 Gloss level 70 GU
Roofing material		
	Specification 1	0.5 mm steel S280GD 255 g/m² zinc-aluminium galvanized 65 µm Colorcoat Prisma RAL 9005 Gloss level 40 GU
	Specification 2	0.5 mm steel HX220YD 275 g/m² 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 mm² H1Z2Z2-K solar cable length 500 mm
Effective roof coverage		2051 mm x 470 mm
Mounting method		Double Seam
Weight		14.6 kg (pc) = 15.1 kg/m² (installed)

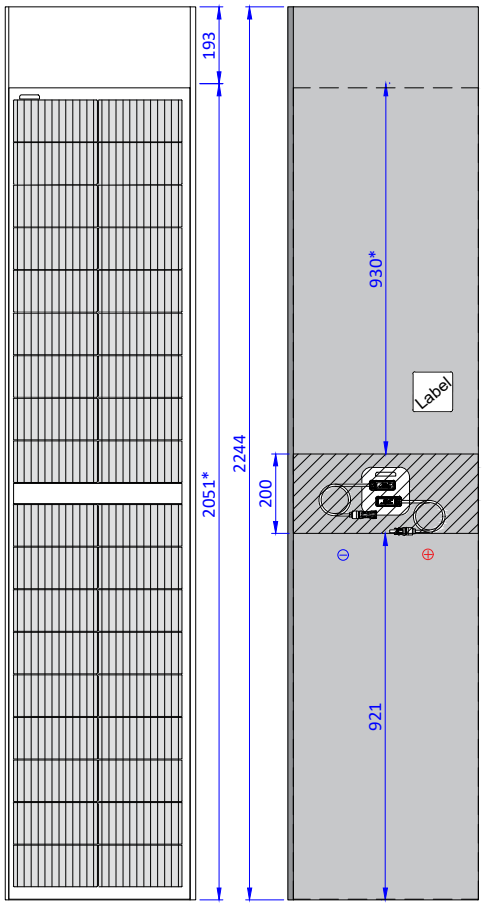
Packing

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

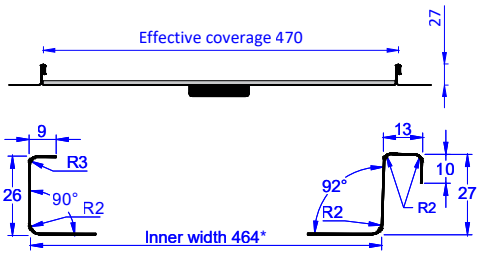
Thermal Characteristics

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

Product dimensions (units in mm)
General tolerance: ±1 mm / ±2°



No batten zone
* Gap of 10 mm between 2 modules included



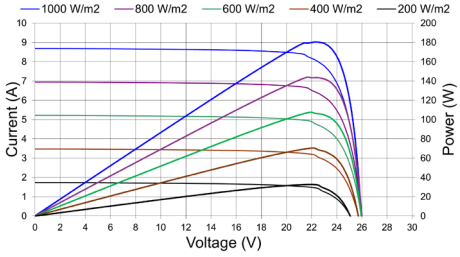
View from the bottom edge

*measured 3 mm from the bottom

Electrical Characteristics

* Standard Test Conditions (irradiance 1000 W/m², cell temperature 25 °C, spectrum AM1.5)		STC*
Nominal Power	P mpp (W)	**180**
Open Circuit Voltage	Voc (V)	**26.5**
Short Circuit Current	I sc (A)	**8.4**
MPP Voltage	V mpp (V)	**22.8**
MPP Current	I mpp (A)	**7.9**
Module efficiency	η (%)	**19.1**

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



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

Contact

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Working Conditions

Maximum System Voltage	1000 V
Ambient Temperature	-40 °C ... +40 °C
Maximum Series Fuse Rating	25 A
Safety Class	Class II
Tested Positive Load	10 000 Pa = 1020 kg/m²
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 Gloss level 70 GU
Roofing material		
	Specification 1	0.5 mm steel S280GD 255 g/m² zinc-aluminium galvanized 65 µm Colorcoat Prisma RAL 9005 Gloss level 40 GU
	Specification 2	0.5 mm steel HX220YD 275 g/m² 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 mm² H1Z2Z2-K solar cable length 500 mm
Effective roof coverage		1409 mm x 470 mm
Mounting method		Double Seam
Weight		10.4 kg (pc) = 15.7 kg/m² (installed)

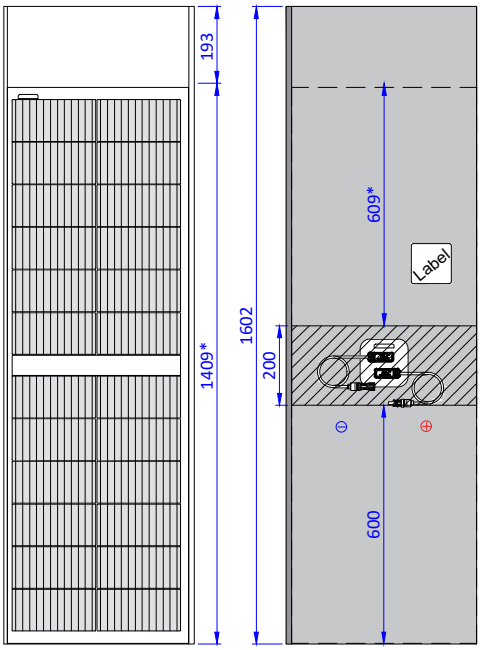
Packing

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

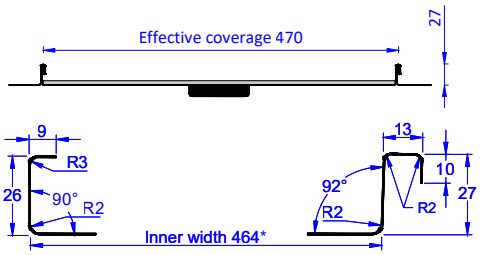
Thermal Characteristics

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

Product dimensions (units in mm)
General tolerance: ±1 mm / ±2°



No batten zone
* Gap of 10 mm between 2 modules included

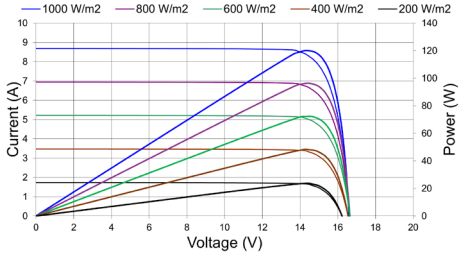


View from the bottom edge *measured 3 mm from the bottom

Electrical Characteristics

* Standard Test Conditions (irradiance 1000 W/m², cell temperature 25 °C, spectrum AM1.5)		STC*
Nominal Power	P mpp (W)	**120**
Open Circuit Voltage	Voc (V)	**17.6**
Short Circuit Current	I sc (A)	**8.4**
MPP Voltage	V mpp (V)	**15.2**
MPP Current	I mpp (A)	**7.9**
Module efficiency	η (%)	**18.6**

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



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

Contact

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Working Conditions

Maximum System Voltage	1000 V
Ambient Temperature	-40 °C ... +40 °C
Maximum Series Fuse Rating	25 A
Safety Class	Class II
Tested Positive Load	10 000 Pa = 1020 kg/m²
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 Gloss level 70 GU
Roofing material		
	Specification 1	0.5 mm steel S280GD 255 g/m² zinc-aluminium galvanized 65 µm Colorcoat Prisma RAL 9005 Gloss level 40 GU
	Specification 2	0.5 mm steel HX220YD 275 g/m² 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 mm² H1Z2Z2-K solar cable length 500 mm
Effective roof coverage		2026 mm x 470 mm
Mounting method		Double Seam
Weight		12.0 kg (pc) = 12.6 kg/m² (installed)

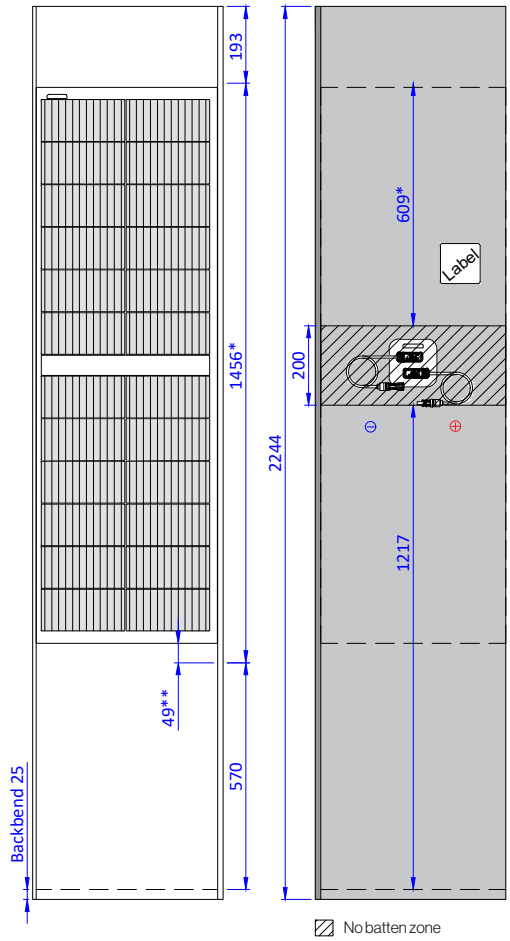
Packing

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

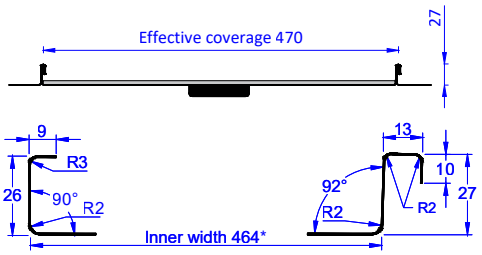
Thermal Characteristics

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

Product dimensions (units in mm)
General tolerance: ±1 mm / ±2°



No batten zone
* Gap of 10 mm between 2 modules included
** Min. bending clearance from the glass



View from the bottom edge

*measured 3 mm from the bottom

Electrical Characteristics

* Standard Test Conditions (irradiance 1000 W/m², cell temperature 25 °C, spectrum AM1.5)		STC*
Nominal Power	P mpp (W)	**120**
Open Circuit Voltage	Voc (V)	**17.6**
Short Circuit Current	I sc (A)	**8.4**
MPP Voltage	V mpp (V)	**15.2**
MPP Current	I mpp (A)	**7.9**
Module efficiency	η (%)	**18.6**

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

