

Sunskin Roof Lap module

Robust. Powerful. Aesthetic.

SWISSPEARL



- + For high snow and wind loads
- + Double-glazed modules for increased durability
- + Can be traversed for maintenance purposes
- + The full building envelope from a single source
- + Detailed installation instructions
- + Can be integrated into various roof cladding solutions

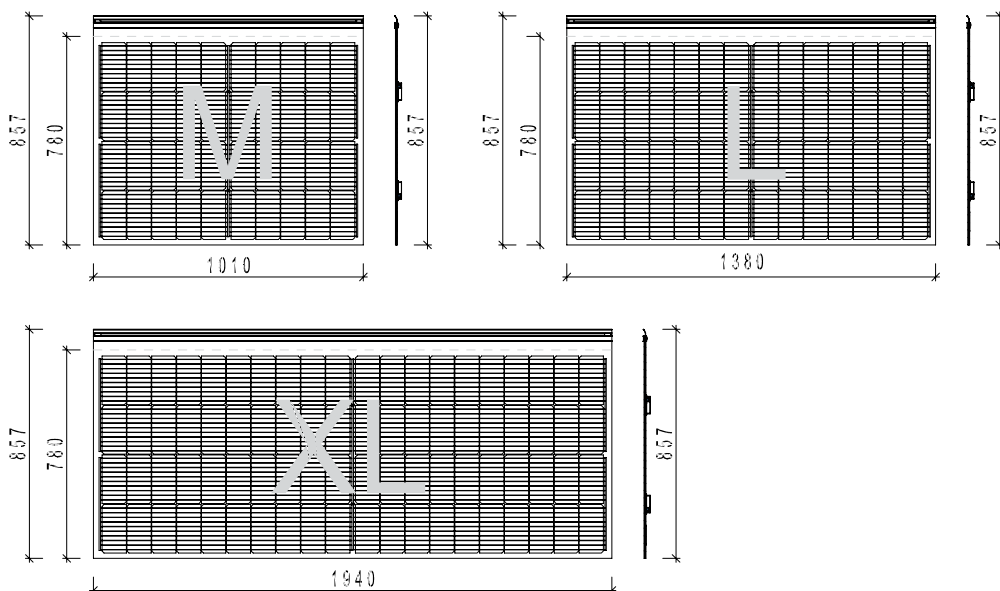
Performance meets attractive design

Sunskin Roof Lap is a high-performance system solution for solar roof systems suitable for all kinds of roof design requirements.

With its frameless, flat shape, the Sunskin Roof Lap photovoltaic modules fit seamlessly in any roof setting. The high-quality Swisspearl modules can be installed in a straight line or staggered.

The combination of Aura 2 additional panels and matching skylight give your Swisspearl solar roof the finishing touch. Hardened double glazing guarantees maximum stability, durability and resistance to wind, snow and hail.

Sunskin Roof Lap module dimensions



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Rated output under STC ¹	XL	L	M
Rated output under STC	305 Wp	215 Wp	150 Wp
No-load voltage U _{OC}	28.68 V	20.08 V	14.34 V
Short-circuit current I _{SC}	12.75 A	12.75 A	12.75 A
Rated voltage U _{MPP}	24.93 V	17.57 V	12.26 V
Rated current I _{MPP}	12.23 A	12.23 A	12.23 A
Rated output tolerance	+/- 3%		
¹ Measuring tolerance is ±3% / STC: 1000 W/m², 25°C and AM 1.5			
Temperature coefficients			
Temperature coefficient no-load voltage β (UOC)	-0.25%/K		
Temperature coefficient short-circuit current α (ISC)	+0,045%/K		
Temperature coefficient rated output γ (PMPP)	-0.32%/K		
General data			
Number of cells	80	56	40
Cell type	M10 TOPCon half cell, 182 × 91 mm		
Module exterior dimensions (L × W)	1940 × 857 × 8.3 mm	1380 × 857 × 8.3 mm	1010 × 857 × 8.3 mm
Laminate dimensions (L × W) ²	1940 × 830 × 8.3 mm	1380 × 830 × 8.3 mm	1010 × 830 × 8.3 mm
Visible area dimensions (L × W)	1940 × 780 mm	1380 × 780 mm	1010 × 780 mm
Frame thickness	No frame, Swisspearl system profile, aluminium, black, anodised		
Weight	28 kg	20 kg	15 kg
Glass front	3.2 mm toughened glass, structured		
Foil layer thickness	< 1.5 mm		
Glass back	3.2 mm toughened glass, structured		
Module colour	Black		
Junction box	PV-GZX312 / (or similar version)		
Protection class	IP68		
Mains cable	1.45 m / 4 mm²	1.15 m / 4 mm²	1.15 m / 4 mm²
Plug	Original MC 4 (Stäubli Electrical Connectors AG)		
Max. system voltage (IEC)	1000 V DC		
Max. return current	15 A		
Max. line fuse	15 A		
Permitted module temperature range	-40°C to +85°C		
Logistics			
Modules per pallet	28		
Weight per pallet	840 kg	610 kg	470 kg
Pallet version	Wooden pallets suitable for construction sites, stackable (two-high)		
Certificates and testing			
Quality, static loading capacity; operational safety	In acc. with IEC 61215; IEC 61730		
Pressure load (rated value) ³	4 module brackets – 8.1 kN/m²	3 module brackets – 8.1 kN/m² 5 module brackets – 16.2 kN/m²	3 module brackets – 10.5 kN/m² 5 module brackets – 16.2 kN/m²
Wind suction (rated value) ³	4 module brackets – 2.4 kN/m²	3 module brackets – 2.4 kN/m² 5 module brackets – 3.2 kN/m²	3 module brackets – 2.4 kN/m² 4 module brackets – 3.2 kN/m²
Snow load	See the Design and Installation Manual		
Hail resistance class	HW4		
Fire class	in acc. with VKF classification (RF1) -> CH BROOF (t1); DIN EN 13501-5: 2010, DIN CEN/TS 16459: 2014 -> EU		
Accessibility	Can be traversed for maintenance purposes		
Warranty			
Product warranty (according to manufacturer)	10 years		
Performance guarantee (according to manufacturer)	10-year 90% performance guarantee; 25-year 80% performance guarantee		
System expansion			
Aura 2 additional panels	Swisspearl Group AG		
Snow guard, safety hooks	Swisspearl Group AG		

² Tolerance -1/+3mm

³ for homogeneous load. You can find out more information and guide values in our technical documentation «Planung & Ausführung - Solarsystem Sunskin Roof Lap»

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Please note: The instructions in the technical documentation «Planung & Ausführung - Solarsystem Sunskin Roof Lap» must be observed.

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