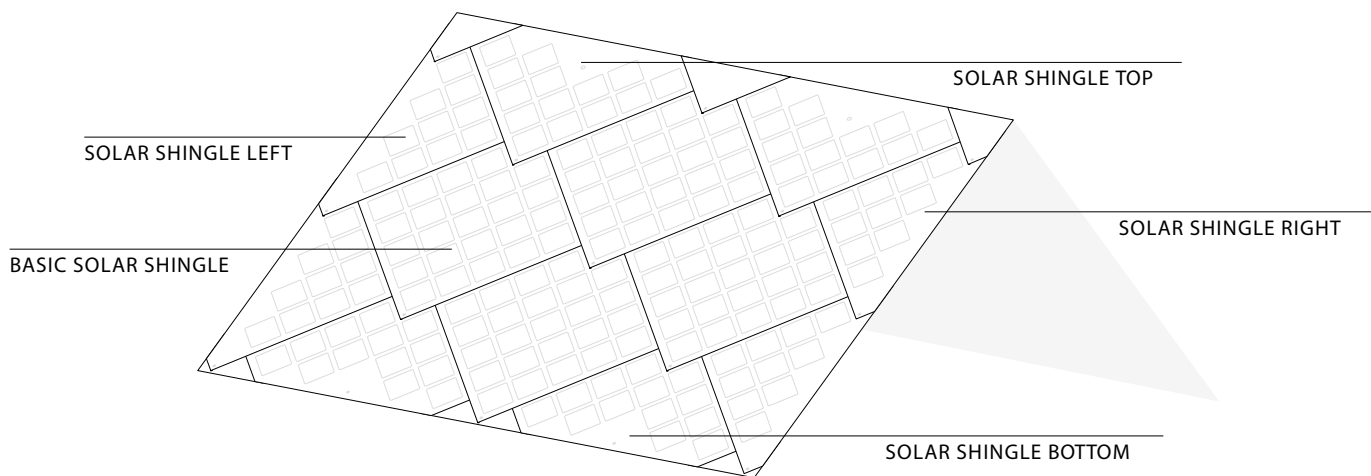


# SUNSTYLE® SOLAR ROOF

## TECHNICAL DATA



### GENERAL CHARACTERISTICS

Dimension basic shingles	870 × 870 mm
Glass properties	Transmission optimized solar glass (ESG)
Glass thickness	6 mm
Solar cell type	Monocrystalline silicon cells
Laminate structure	Glass   EVA   Cells   EVA   Back sheet
Junction box	Multi-Contact or equal
Bypass diode	One diode per shingle
Connection cable	Solar cable 4 mm <sup>2</sup> , lenght 800 mm each
Connector	Multi-Contact (MC4) or equal
Weight	19.5 kg/m <sup>2</sup>
Substructure	Wooden slats or steel tubes
Temperature range	-40°C to +85°C
System power	U <sub>p</sub> to 162 W <sub>p</sub> /m <sup>2</sup>

### QUALITY AND WARRANTY

Product guarantee	10 years
Performance guarantee	10 years at 90 % of the nominal output 25 years at 80 % of the nominal output
Quality and Certification	IEC 61215 IEC 61730 (protection class II)
Fire safety	DIN-EN 13501-5
Hail resistance class	HW 4 (withstands 40 mm Ø hailstones)
Certified pressure load	5 400 N/m <sup>2</sup>
Certified pressure load alpine	15 400 N/m <sup>2</sup>
Accessibility	Can be accessed without any guarantee restrictions
Watertightness	Min. slope 3° (cf. notice sheet: requirement roof-buildup)

### ELECTRICAL PROPERTIES AT STC (1000 W/m<sup>2</sup>, 25°C and AM 1,5)

Type of solar shingle	BASIC SHINGLE	SHINGLE TOP	SHINGLE BOTTOM	SHINGLE LEFT	SHINGLE RIGHT
Nominal output	108 W <sub>p</sub>	63 W <sub>p</sub>	58 W <sub>p</sub>	45 W <sub>p</sub>	45 W <sub>p</sub>
Voltage U <sub>mpp</sub>	12.7 V	7.4 V	6.9 V	5.3 V	5.3 V
Current I <sub>mpp</sub>	8.5 A	8.5 A	8.5 A	8.5 A	8.5 A
Open circuit voltage U <sub>oc</sub>	15.9 V	8.8 V	8.2 V	6.3 V	6.3 V
Short circuit current I <sub>sc</sub>	9.1 A	9.1 A	9.1 A	9.1 A	9.1 A
Maximum system voltage	1000 V DC	1000 V DC	1000 V DC	1000 V DC	1000 V DC
Reverse current overload	18 A	18 A	18 A	18 A	18 A
Tolerance nominal output	±3%	±3%	±3%	±3%	±3%

### TEMPERATURE COEFFICIENTS

Temperature coefficient voltage (U <sub>oc</sub> )	-0,3%/K
Temperature coefficient nominal output (P <sub>mpp</sub> )	-0,4%/K
Temperature coefficient short circuit current (I <sub>sc</sub> )	+0,05%/K

### SYSTEM EXTENSIONS

Customizable SUNSTYLE® shingles	Compound plates
Snow stopper	Stainless steel, black
Alpine substructure	Wood