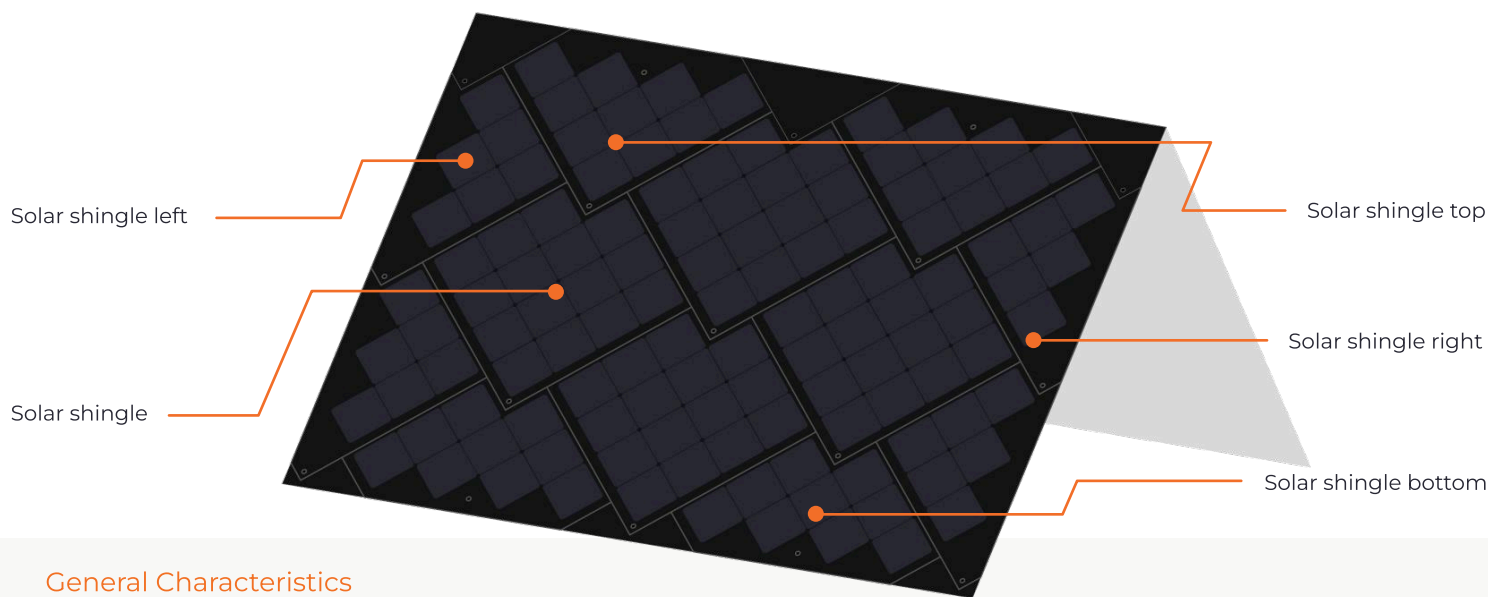


SunStyle 745 Black Antiglare



General Characteristics

Dimension solar shingles	745 x 745 x 8 mm
Laminate structure	Glass EVA Cells EVA Glass
Front Glass	4.0mm structured solar glass with reflected luminance of 9,000 cd/m ² at 100,000 lx irradiation, thermally toughened
Back Glass	3.2mm with screen printing black, thermally toughened
Solar cell type	Monocrystalline silicon PERC cells
Junction box	According to IEC 62790
Bypass diodes	2 Diodes per shingle
Connection cable	Solar cable 4 mm ² , 800 mm length
Connector	Original Stäubli Multi-Contact (MC4)
System weight	21 kg / m ²
Substructure	Wooden slats with M6 inlets
Tested temperature range	-40°C bis +85°C
System power	Up to 172 W _p / m ²

Quality and Warranty

Product guarantee	12 years
Performance guarantee	10 years at 90 % of the nominal output 30 years at 80 % of the nominal output
Performance	made according to IEC 61215
Safety	made according to IEC 61730 (protection class II)
Fire safety	DIN-EN 13501-5: B _{ROOF} (t1)/(t2)/(t3) DIN 4102-7: class B1
Hail resistance class	HW 4 (withstands 40 mm Ø hailstones)
Tested Pressure load w/o support battens	12'750 Pa
Permitted snow load with support battens	8'500 Pa higher pressure on request
Accessibility	Dry roof can be accessed without any warranty restrictions
Water tightness	Min. slope 4° (cf. notice sheet: requirement roof-buildup)

Electrical Properties at Standard Test Conditions (1000 W/m², 25°C and AM 1.5)

Type of solar shingle	Solar shingle	Solar shingle bottom	Solar shingle top	Solar shingle left	Solar shingle right
Nominal output	84 W _p	50 W _p	55 W _p	33 W _p	33 W _p
Voltage V _{MPP}	8.1 V	4.8 V	5.3 V	3.2 V	3.2 V
Current I _{MPP}	10.4 A	10.4 A	10.4 A	10.4 A	10.4 A
Open circuit voltage V _{OC}	10.2 V	6.1 V	6.8 V	4.1 V	4.1 V
Short circuit current I _{SC}	10.5 A	10.5 A	10.5 A	10.5 A	10.5 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 α	for short circuit current (I _{SC})	+0,07 %/K
Temperature coefficient β	for open circuit voltage (V _{OC})	-0,36 %/K
Temperature coefficient γ	for nominal output (P _{MPP})	-0,38 %/K

System Enhancements

Complementary shingle fixed size Customizable shingle	Laminated safety glass, black SunStyle®-compound material black
Snow hook	Stainless steel, black
Alpine support laths from 3600 Pa	Wood