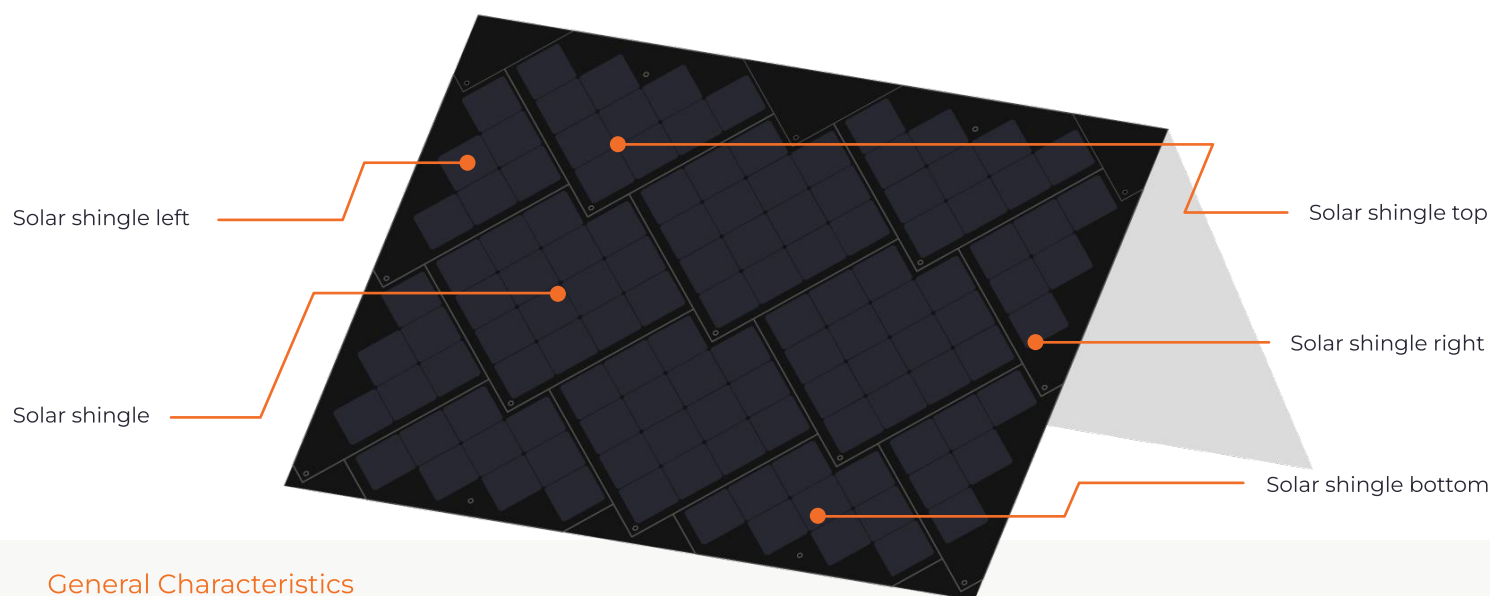


SunStyle 745 Black



General Characteristics

Laminate structure	745 x 745 x 7.5 mm
Front Glass	Glass EVA Cells EVA Glass
Back Glass	Transmission optimized solar glass with structured, matt surface 3.2mm, thermally toughened
Solar cell type	3.2mm with screen printing black, thermally toughened
Junction box	Monocrystalline silicon PERC cells
Bypass diodes	According to IEC 62790
Connection cable	2 Diodes per shingle
Connector	Solar cable 4 mm ² , 800 mm length
System weight	Original Stäubli Multi-Contact (MC4)
Substructure	20.5 kg / m ²
Tested temperature range	Wooden slats with M6 inlets
System power	-40°C bis +85°C
	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 certificate	IEC 61215
Safety certificate	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	Laminated safety glass, black
Customizable shingle	SunStyle®-compound material black
Snow hook	Stainless steel, black
Alpine support laths from 3600 Pa	Wood