



General Characteristics

Dimension solar shingles:	745 mm x 745 mm x 7.5 mm
Front glass:	3.2 mm thermally tempered solar glass with textured surface
Back glass:	3.2 mm heat-strengthened float glass
Junction box:	According to IEC 62790
Bypass diodes:	2 diodes
Connection cable:	Solar cable 4 mm ² , 950 mm length
Connector:	Original Stäubli MC4-Evo2
System weight:	Standard 20.5 kg/m ² , Alpin 25.0 kg/m ²
Substructure:	Wooden slats with M6 inlets
Tested temperature range:	-40°C until +85°C
Product guarantee:	12 years
Performance guarantee:	10 years at 90 % of the nominal output 30 years at 80 % of the nominal output

Quality and Warranty

IEC certificate:	IEC 61730, IEC 61215*
Fire safety:	DIN-EN 13501-5: B _{ROOF} (t1) DIN 4102-7: class B1
Hail resistance class:	HW 4
Permissible loads:	Snow load**: +3,600 Pa +5,400 Pa with alpine battens: +8,500 Pa +12,750 Pa Wind load***: ±2,400 Pa ±3,600 Pa with wind hooks: ±3,600 Pa ±5,400 Pa (design load test load)
Accessibility:	Dry roof accessible without warranty restrictions
Water resistance:	Minimum roof pitch of 4° (see information sheet: sub-roof requirements)
System performance:	Up to 147 W _p /m ²

*in progress **Snow load pressure only (+) *** Wind load pressure and suction (±)

System Properties

Maximum System voltage (IEC)	1000 V DC
Reverse current overload	18 A

Temperature Coefficients

Temperature coefficients α	for I _{sc}	+0.07 %/K
Temperature coefficients β	for U _{oc}	-0.36 %/K
Temperature coefficients γ	for P _{mpp}	-0.38 %/K

Electrical Properties *

Type of solar tile	Solar tile	Solar tile bottom	Solar tile top	Solar tile left/right
Nominal output**	72 W _p	43 W _p	48 W _p	28 W _p
Voltage U _{mpp}	8.3 V	5.0 V	5.6 V	3.3 V
Current I _{MPP}	8.7 A	8.7 A	8.7 A	8.7 A
Open circuit voltage U _{oc}	10.0 V	6.0 V	6.7 V	4.0 V
Short circuit current I _{sc}	9.2 A	9.2 A	9.2 A	9.2 A

*under standard test conditions (1000 W/m², 25°C and AM 1.5) ** Tolerance Nominal power ± 3%

System Enhancements

Fixed supplementary tiles:	SunStyle®-Tile (VSG, orange)
Supplementary tiles cut to size:	SunStyle®-Aluminium composite (orange)

Snow and wind hook:	Stainless steel, black, 4mm INOX
Alpine support battens:	> 3600 Pa