

Datasheet Redline



SOLAR ROOF TILES



Datasheet Redline

One red solar roof tile produces 8Wp (80Wp per m²). We use the natural red roof tile of Nibra F10U colour 201.

Technical specifications

Maximum power	8W
Output tolerance	± 5%
Optimum operating voltage	0.98V
Optimum operating current	8.17A
Open circuit voltage	1.25V
Short circuit current	8.71A
Maximum system voltage	600VDC
Module-efficiency	16,4%
Temperature coefficient voltage	0.05%/° C
Temperature coefficient current	-0.32%/°C
Temperature coefficient power	-0.39 %/°C

Maximum values

Temperature resistance	-40 °C ~ +80° C
Storage temperature	-40 °C ~ +80° C
Maximum allowed voltage insulation	600VDC
Maximum wind resistance	60 m/s
Maximum surface load	200kg/m ²
Maximum hail load	25 mm / 80 km

Mechanical specifications

Dimensions roof tile	487 x 296 mm
Dimensions panel l x w x d	172x344x4,5mm
Covering width roof tile	242 mm
tile lath distance	419-428 mm
Weight	4.8 kg
Weight per m ²	48 kg
Number per m ²	10 pieces
Minimum roof pitch	15°/22°

General data

Solar cell type	poly-crystalline
Silicon	
Dimensions cell	156x156
Shape of cell	square
4 bush bars	silver
Number of cells	2 series
Efficiency of cell	16,4%

Laminate data

Dimensions l x w x d	340x172x4,5
Material frame	none
Surface glass	hardened solar glass
Glass thickness	3.2 mm
Material	EVA
Material backsheet	TPT

STC data

AM-condition AM	1.5
Light intensity	1000 W/m ²
Temperature	25° C

Packaging

Number per pallet	168 pieces
Dimensions full pallet	80x120
Weight full pallet	800kg