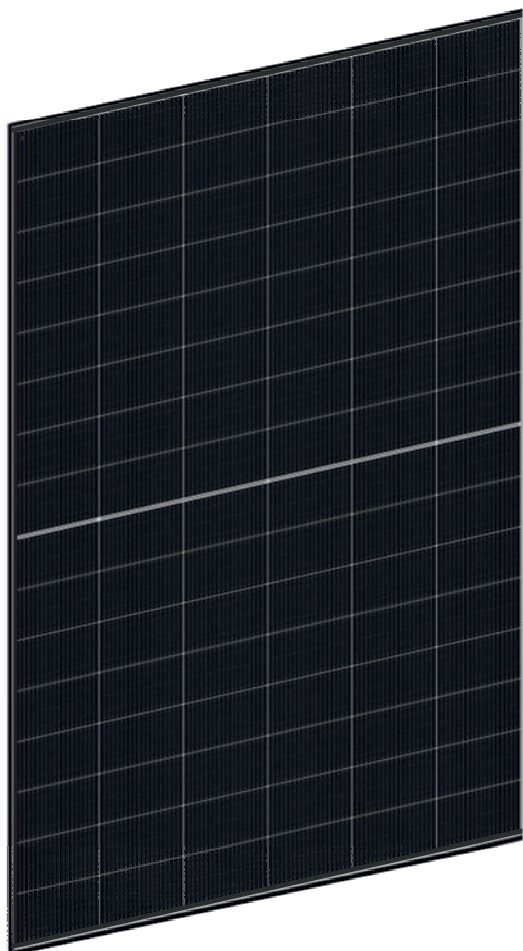


SolarRoof Solrif

Glass/Glass Bifacial N-Type 475 W

transparent - V2



Integrated in-roof solar solution

- Powerful because of TOPCon cell technology
- High module efficiency up to 23,77 %
- 2 + 2 mm tempered and highly transparent solar glass
- Mechanical load capacity of 5400 Pa
- Hail class 4
- Aesthetic design
- Easy assembly
- Rainproof like a tiled roof
- Full cost coverage in the event of a warranty claim

Solrif made by **Schweizer**

- Power increase 0 Wp - 4.99 Wp
- Excellent temperature behavior
- PID free
- LID free

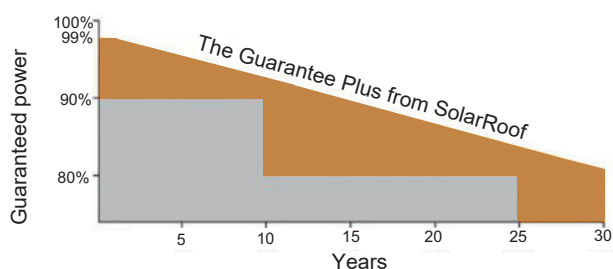
Certificates

- ISO 9001: 2015: Quality management system
- ISO 14001: 2015: Environmental management system
- ISO 45001: 2018: Management system for health and safety
- IEC 61215, IEC 61730



Guarantee from Germany

- 30 years product warranty
- 30 years power warranty



- Linear performance guarantee from SolarRoof
- Regular standard warranty

ELECTRICAL DATA @ STC

Maximum power, P _{mpp} / Wp	475
Voltage open circuit, V _{oc} / V	36,89
Short circuit current, I _{sc} / A	16,06
Max. voltage, V _{mpp} / V	31,4
Max. current, I _{mpp} / A	15,13
Module efficiency up to / %	23,77
Temperature range / °C	-40 up to +70
Max. system voltage DC / V	1500
Fire protection class	Class A
Max. reverse current I _r / A	30

Technical data according to STC (Standard Test Conditions) Irradiation 1000 W/m² | Module temperature 25 °C | Air Mass 1.5

ELECTRICAL DATA @ NOCT

Maximum power, P _{mpp} / Wp	357,38
Voltage open circuit, V _{oc} / V	34,12
Short circuit current, I _{sc} / A	13,05
Max. voltage, V _{mpp} / V	29,83
Max. current, I _{mpp} / A	12,22

Technical data for NOCT (Nominal Operating Cell Temperature) Irradiance 800 W/m² | Wind speed 1 m/s | Ambient temperature 20 °C | Cell operating temperature 43 +/- 2 °C | Air Mass 1.5

TECHNICAL DATA

Cell / Type	Monocrystalline N-Type TOPCon / Halbzelle
Number of cells	96 (2 x 48)
Dimensions	1806 x 1160 x 17 mm
Weight / kg	24
Front	2 mm tempered glass with anti-reflective coating
Back sheet	2 mm tempered glass
Junction box / diodes	IP68, 3 diodes
Cable	4 mm ² solar cable, 1200 mm long
Connector	MC4

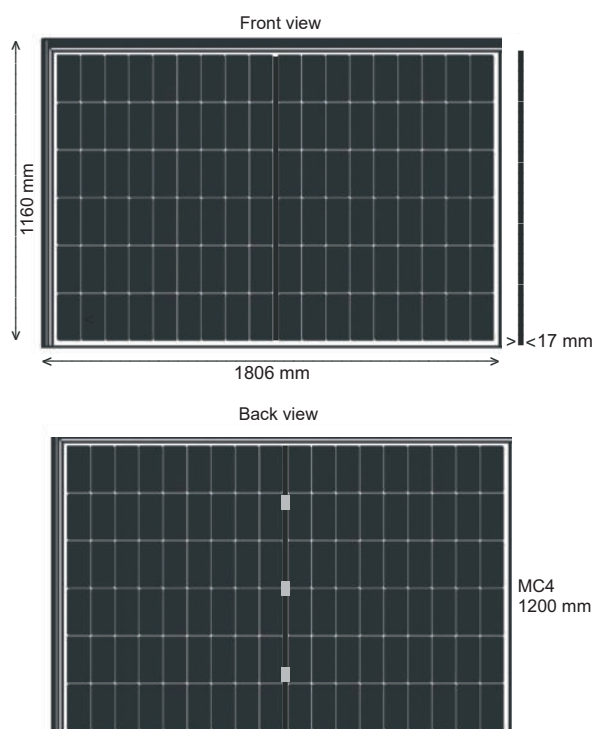
TEMPERATURE COEFFICIENTS

Nominal operating temp. cell (NOCT)	45 °C +/- 2 °C
Temp. Coefficient, (P)	-0,29 %/°C
Temp. Coefficient, (U)	-0,25 %/°C
Temp. Coefficient, (I)	0,045 %/°C

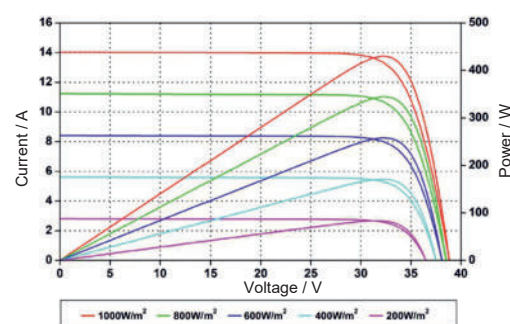
PACKAGING

Module auf Palette	32 Stück
Module Container	832 Stück

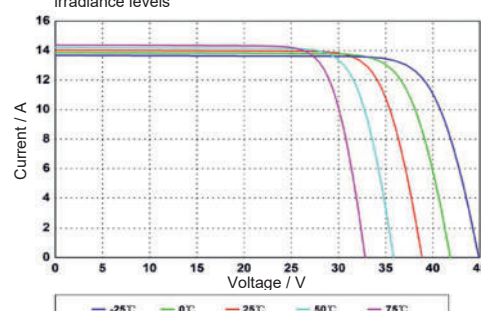
DRAWING



DIAGRAMS



Current-voltage-power-voltage curves at different irradiance levels



Voltage curves at different temperatures

Technical data are average values and may vary slightly.
Measuring tolerance of the nominal power depending on the measuring apparatus +/- 3 % and other values +/- 10 %.