

SolarRoof Solrif Glass/Glass Bifacial N-Type 465 W - V2



Integrated in-roof solar solution

- Powerful because of TOPCon cell technology
- High module efficiency up to 23,27 %
- 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**

Certificates

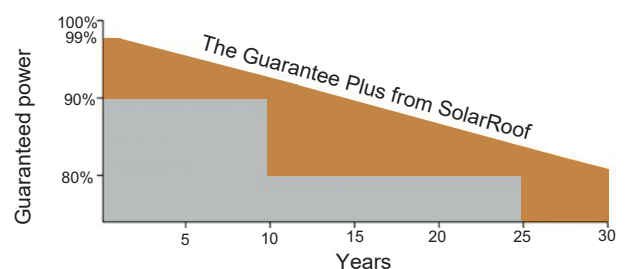
- Power increase 0 Wp - 4.99 Wp
- Excellent temperature behavior
- PID free
- LID free

- 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} / W _p	465
Voltage open circuit, V _{oc} / V	36,55
Short circuit current, I _{sc} / A	15,96
Max. voltage, V _{mpp} / V	30,94
Max. current, I _{mp} / A	15,03
Module efficiency up to / %	23,27
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} / W _p	349,50
Voltage open circuit, V _{oc} / V	33,88
Short circuit current, I _{sc} / A	12,95
Max. voltage, V _{mpp} / V	29,39
Max. current, I _{mp} / A	12,14

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 / half cells
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
Backsheet	2 mm tempered glass
Junction box / diodes	IP68, 3 diodes
Cable	4 mm ² solar cable, 1200 mm long
Connector	MC4

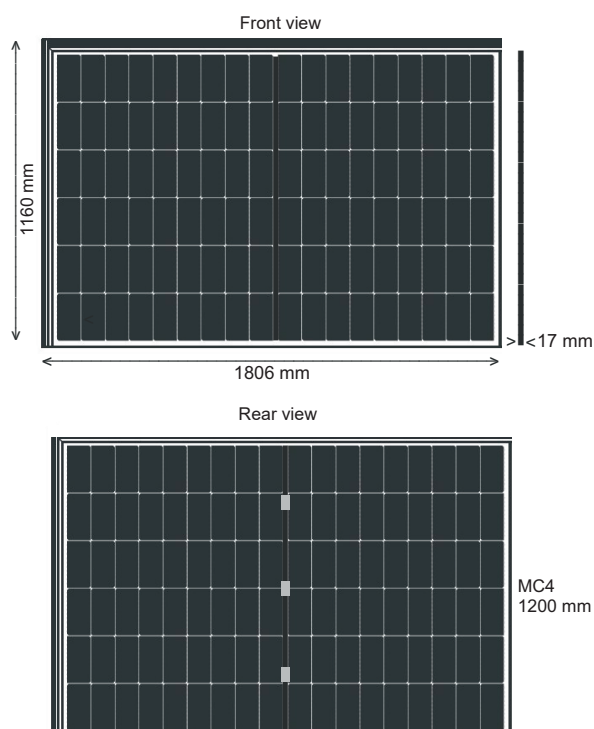
TEMPERATURE COEFFICIENTS

Nominal operating temperature 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

Modules / Pallet	32 pieces
Modules / Shipping container	832 pieces

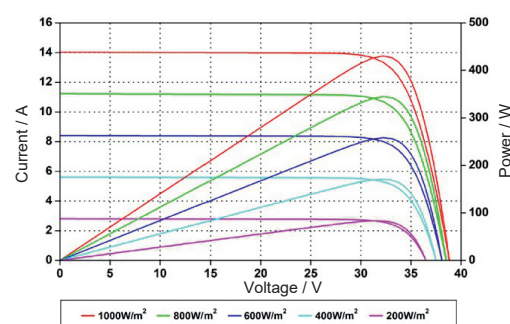
DRAWING



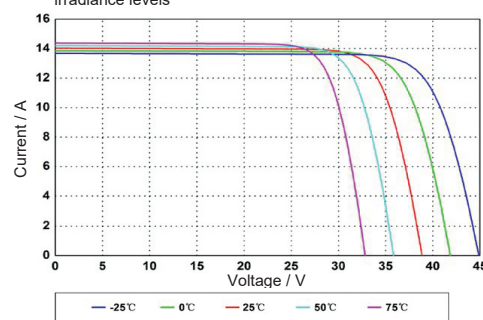
Technical data are average values and may vary slightly.

Measuring tolerance of the nominal power depending on the measuring apparatus +/-3 % and other values +/-10 %

DIAGRAMS



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



Voltage curves at different temperatures