

## PRODUCT



# SOLARWATT Panel

vision H 3.0 (360 Wp) style  
vision H 3.0 (365 Wp) style  
vision H 3.0 (370 Wp) style

## Glass-Glass module

### Solid quality with high performance

Thanks to their modern design Solarwatt glass-glass modules deliver the highest long-term yields. They are robust and more resilient than their predecessors. Bifacial PERC half-cut-cells enable modules that are optimized for maximum performance.

The solar cells are embedded almost indestructibly in the glass-glass composite and thus optimally protected against all weather effects and mechanical stress. Solarwatt can therefore offer a 30-year warranty on performance and product quality.



## PRODUCT QUALITY

- bifacial PERC half-cut-cells
- transparent embedding of the cells
- LeTID tested
- ammonia resistant
- intensive hailstorm resistant
- salt mist resistant
- 100 % plus-sorting
- PID protected
- snow-load warranty



Subject to change | Errors excepted

This data sheet fulfills the requirements listed in IEC 61215-1-1 | EN-AUS

## SERVICE

### simple returns policy

as per „Delivery terms for Solarwatt solar modules“

### 30 year product warranty

as per „Warranty conditions for Solarwatt solar modules“

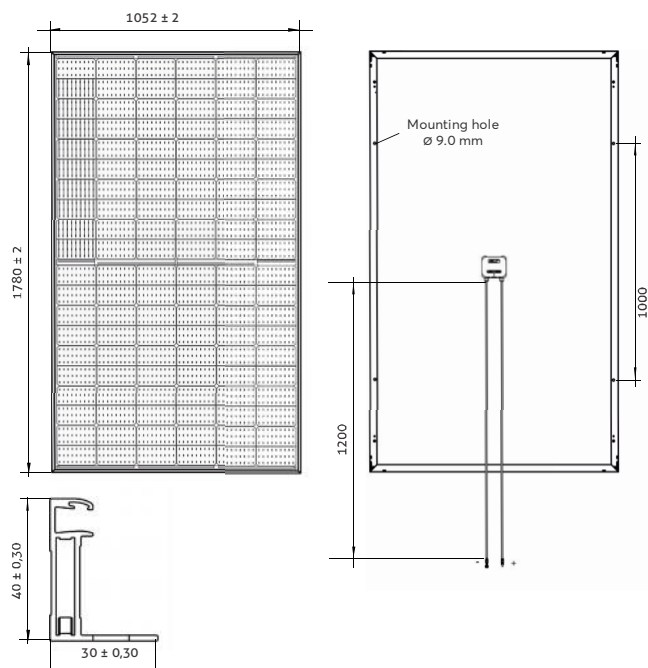
### 30 year performance warranty

on 87 % of nominal power as per „Warranty conditions for Solarwatt solar modules“

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## DIMENSIONS



## GENERAL DATA

<b>Module technology</b>	Glass-glass laminate, aluminum frame, black
<b>Covering material</b>	Tempered solar glass with anti-reflective finish, 2 mm
<b>Encapsulation</b>	Solar cells in polymer encapsulation, transparent
<b>Backing material</b>	Tempered glass, 2 mm
<b>Transparent areas</b>	appr. 7.4 %
<b>Solar cells</b>	120 monocrystalline, bifacial, high power PERC-solar cells
<b>Cell dimensions</b>	166 x 83 mm
<b>L x W x H / Weight</b>	1,780 <sup>±2</sup> x 1,052 <sup>±2</sup> x 40 <sup>±0,3</sup> mm / appr. 25 kg
<b>Connection technology</b>	Cables 2 x 1,2 m/ 4 mm <sup>2</sup> Stäubli Electrical MC4 connectors
<b>Bypass diodes</b>	3
<b>Max. system voltage</b>	1,000 V
<b>IP rating</b>	IP67
<b>Protection class</b>	II (acc. to IEC 61140)
<b>Fire class</b>	B (acc. to IEC 61730/UL 790), E (acc. to EN 13501-1), B <sub>ROOF</sub> (t1) (acc. to EN13501-5)
<b>Certified mechanical ratings as per IEC 61215</b>	Suction load up to 2,400 Pa (test load 3,600 Pa) Pressure load up to 5,400 Pa (test load 8,100 Pa)
<b>Recommended stress load as per Installation Instructions</b>	Please refer to the specifications in the Installation Instructions and Warranty Conditions.
<b>Qualifications</b>	IEC 61215   IEC 61730   LeTID   IEC 61701 IEC 62804   IEC 62716   MCS 005

## ELECTRICAL DATA (STC)

STC (Standard Test Conditions): Irradiation intensity 1,000 W/m<sup>2</sup>, spectral distribution AM 1,5 | Temperature 25 ± 2 °C, in accordance to EN 60904-3

<b>Nominal power P<sub>max</sub></b>	360 Wp	365 Wp	370 Wp
<b>Nominal voltage V<sub>mp</sub></b>	34,4 V	34,5 V	34,6 V
<b>Nominal current I<sub>mp</sub></b>	10,6 A	10,7 A	10,8 A
<b>Open circuit voltage V<sub>oc</sub></b>	41,1 V	41,2 V	41,3 V
<b>Short circuit current I<sub>sc</sub></b>	11,1 A	11,2 A	11,3 A
<b>Module efficiency</b>	19,4 %	19,6 %	19,9 %

Measurement tolerances: P<sub>max</sub> ±5%; V<sub>oc</sub> ±3%; I<sub>sc</sub> ±5%, I<sub>mp</sub> ±5%

Reverse-current power rating I<sub>r</sub>: 20 A, operating modules with an external power source is only permissible if using a phase fuse with a tripping current of ≤ 20 A.

## ELECTRICAL DATA (NMOT AND WEAK LIGHT)

NMOT (Nominal Module Operating Temperature): Irradiation intensity 800 W/m<sup>2</sup>, spectral distribution AM 1,5, Temperature 20 °C  
Weak light conditions: Irradiation intensity 200 W/m<sup>2</sup>, Temperature 25 °C, Wind speed 1 m/s, load operation

<b>Nominal power P<sub>max@NMOT</sub></b>	268 W	271 W	275 W
<b>Nominal power P<sub>max@200 W/m²</sub></b>	70,5 W	71,4 W	72,4 W

Measurement tolerances: P<sub>max</sub> ±5%; V<sub>oc</sub> ±3%; I<sub>sc</sub> ±5%, I<sub>mp</sub> ±5%

Reduction of module efficiency when irradiance is reduced from 1,000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> (at 25 °C): 4 ± 2 % (relative) / -0,6 ± 0,3 % (absolute).

## BIFACIAL SPECIFICATIONS

Bifi gain: Possible additional power by backside compared to front side power, depending on the mounting situation.

	P <sub>max</sub>	I <sub>sc</sub>	P <sub>max</sub>	I <sub>sc</sub>	P <sub>max</sub>	I <sub>sc</sub>
<b>Bifi gain 0 %</b>	360 W	11,1 A	365 W	11,2 A	370 W	11,3 A
<b>Bifi gain 5 %</b>	378 W	11,6 A	383 W	11,8 A	389 W	11,9 A
<b>Bifi gain 10 %</b>	396 W	12,2 A	402 W	12,3 A	407 W	12,4 A
<b>Bifi gain 15 %</b>	414 W	12,7 A	420 W	12,9 A	426 W	13,0 A
<b>Bifi gain 20 %</b>	432 W	13,3 A	438 W	13,4 A	444 W	13,6 A

## THERMAL FEATURES

<b>Operating temperature range</b>	-40 ... +85 °C
<b>Ambient temperature range</b>	-40 ... +45 °C
<b>Temperature coefficient P<sub>max</sub></b>	-0,37 %/K
<b>Temperature coefficient V<sub>oc</sub></b>	-0,27 %/K
<b>Temperature coefficient I<sub>sc</sub></b>	0,04 %/K
<b>NMOT</b>	44 °C

## TRANSPORT AND PACKAGING

<b>Modules per palette</b>	22
<b>Palette dimensions (gross) L x W x H</b>	1,800 x 1,070 x 1,120 mm
<b>Gross weight per palette</b>	592 kg
<b>Palettes per container (double stacked)</b>	24
<b>Modules per container</b>	528