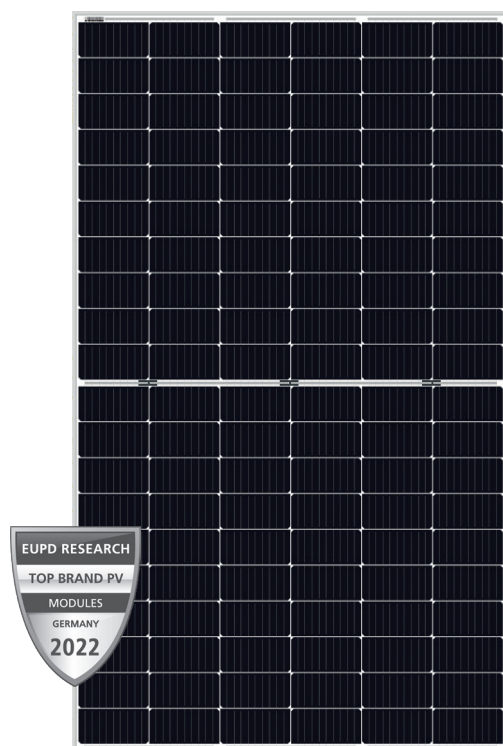


## PRODUCT



# SOLARWATT Panel vision AM 3.0 (375 Wp) pure Glass-Glass-Module

## Solid quality with high performance

Thanks to their design Solarwatt glass-glass modules deliver the highest long-term yields. They are robust and resilient. 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.

The Solarwatt FullCoverage insurance is included for 5 years and free of charge. It insures almost all risks and takes effect even if the modules do not produce electricity or deliver less than expected in the event of damage.



## PRODUCT QUALITY

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

## SERVICE

**FullCoverage insurance**  
included (up to 1,000 kWp\*)

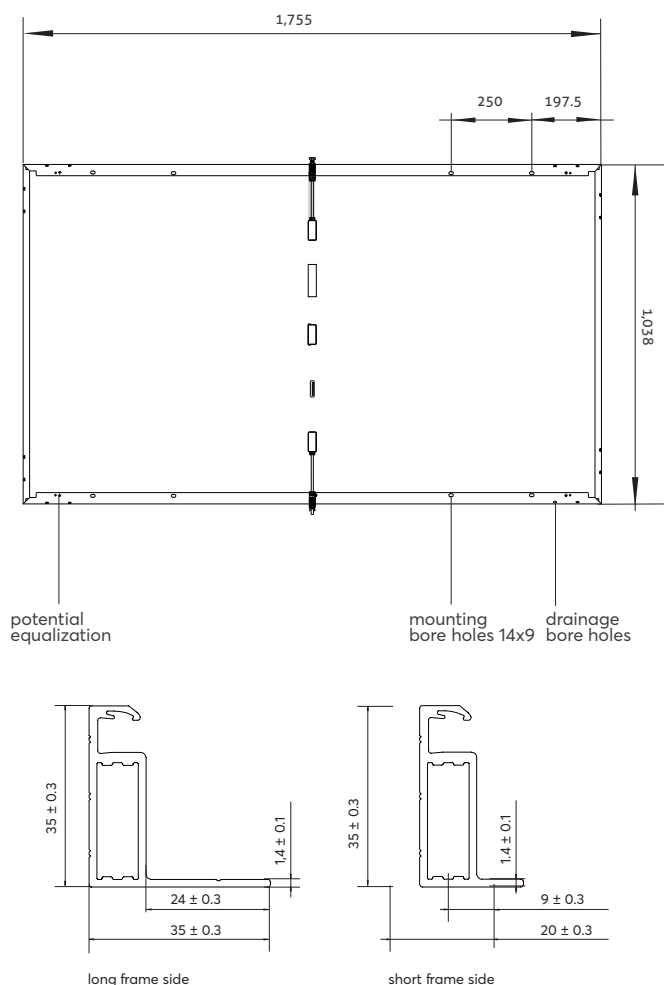
**simple returns policy**  
as per „Delivery terms for Solarwatt solar modules“

**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“

\* country-specific deviations apply

## DIMENSIONS



## GENERAL DATA

<b>Module technology</b>	Glass-glass laminate; aluminum frame
<b>Covering material</b>	Tempered solar glass with anti-reflective finish, 2 mm
<b>Encapsulation</b>	Solar cells in polymer encapsulation
<b>Backing material</b>	Tempered glass, 2 mm, white
<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>	1,755 <sup>±2</sup> x 1,038 <sup>±2</sup> x 35 <sup>±0.3</sup> mm / 24.0 kg
<b>Connection technology</b>	Cables 2x 1.2 m / 4 mm <sup>2</sup> , Stäubli Electrical MC4-Evo 2 or MC4-type connectors
<b>Bypass diodes</b>	3
<b>Max. system voltage</b>	1,500 V
<b>IP rating</b>	IP68
<b>Protection class</b>	II (acc. to IEC 61140)
<b>Fire class</b>	C (acc. to IEC 61730)
<b>Certified mechanical ratings as per IEC 61215</b>	Pressure load up to 5,400 Pa (test load 8,100 Pa) Suction load up to 2,400 Pa (test load 3,600 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 (incl. LeTID)   IEC 61730   2 PFG 2387 (PID)   IEC 61701   IEC 62716   MCS 005

## 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>	-0.33 %/K
<b>Temperature coefficient V<sub>oc</sub></b>	-0.26 %/K
<b>Temperature coefficient I<sub>sc</sub></b>	0.05 %/K
<b>NMOT</b>	44 °C

## 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>	375 Wp
<b>Nominal voltage V<sub>mp</sub></b>	34.1 V
<b>Nominal current I<sub>mp</sub></b>	11.0 A
<b>Open circuit voltage V<sub>oc</sub></b>	41.9 V
<b>Short circuit current I<sub>sc</sub></b>	11.4 A
<b>Module efficiency</b>	20.6 %

Measurement tolerances: P<sub>max</sub> ± 5 %; V<sub>oc</sub> ± 10 %; I<sub>sc</sub> ± 10 %, I<sub>mp</sub> ± 10 %

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

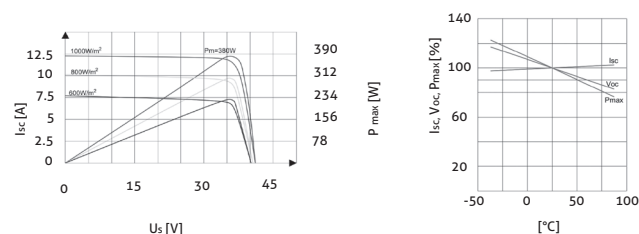
<b>Nominal power P<sub>max</sub> @NMOT</b>	281 W
<b>Nominal power P<sub>max</sub> @200 W/m<sup>2</sup></b>	73.0 W

Measurement tolerances: P<sub>max</sub> ± 5 %; V<sub>oc</sub> ± 10 %; I<sub>sc</sub> ± 10 %, I<sub>mp</sub> ± 10 %

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).

## CHARACTERISTIC LINES (Performance Class 375 Wp)

Voltage characteristic line at different temperatures and irradiances



## TRANSPORT AND PACKAGING

<b>Modules per pallet</b>	31
<b>Modules per container</b>	806
<b>Pallets per truck</b>	14 / 28
<b>Modules per truck</b>	434 / 868
<b>Gross weight per pallet</b>	784 kg
<b>Pallet dimensions (packing size)</b>	1,800 x 1,140 x 1,180 mm