SOLARWATT Panel
vision H 3.0 (365 Wp) pure
vision H 3.0 (370 Wp) pure
vision H 3.0 (375 Wp) pure

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. 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

- ammonia resistant
- intensive hailstorm resistant
- salt mist resistant
- LeTID tested
- 100 % plus-sorting
- PID protected
- snow-load warranty

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“

Subject to change | Errors excepted
This data sheet fulfills the requirements listed in IEC 61215-1-1 | EN-AUS

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Certified acc. to DIN EN ISO 9001, 14001, 45001, 50001
**GENERAL DATA**

**Module technology**
Glass-glass laminate; aluminum frame

**Covering material**
Tempered solar glass with anti-reflective finish, 2 mm

**Encapsulation**
Solar cells in polymer encapsulation, white

**Backing material**
Tempered glass, 2 mm

**Solar cells**
120 monocrystalline high power PERC-solar cells

**Cell dimensions**
166 x 83 mm

**L x W x H / Weight**
1,780 mm x 1,052 mm x 40 mm / approx. 25 kg

**Connection technology**
Cables 2 x 1,2 m / 4 mm²; Stäubli Electrical MC4 connectors

**Bypass diodes**
3

**Max. system voltage**
1,000 V

**IP rating**
IP67

**Protection class**
II (acc. to IEC 61140)

**Fire class**
A (acc. to IEC 61730/UL 790); B火灾 (1) (acc. to EN13501-5)

**Certified mechanical ratings as per IEC 61215**
Suction load up to 3,600 Pa (test load 5,400 Pa); Pressure load up to 8,100 Pa (test load 12,150 Pa)

**Recommended stress load as per Installation Instructions**
Please refer to the specifications in the Installation Instructions and Warranty Conditions.

**Qualifications**
IEC 61215 | IEC 61730 | LeTID | IEC 61701
IEC 62804 | IEC 62716 | MCS 005

**THERMAL FEATURES**

**Operating temperature range**
-40... +85 °C

**Ambient temperature range**
-40... +45 °C

**Temperature coefficient Pmax**
-0.37 %/K

**Temperature coefficient Voc**
-0.27 %/K

**Temperature coefficient Isc**
0.04 %/K

**NMOT**
44 °C

**CHARACTERISTIC LINES [PERFORMANCE CLASS 370 WP]**

Voltage characteristic line at different temperatures and irradiations

**TRANSPORT AND PACKAGING**

**Modules per pallet**
22

**Pallet dimensions (gross) L x W x H**
1,800 x 1,070 x 1,120 mm

**Gross weight per pallet**
592 kg

**Pallets per container (double stacked)**
24

**Modules per container**
528

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**ELECTRICAL DATA (STC)**

STC (Standard Test Conditions): Irradiation intensity 1,000 W/m²; spectral distribution AM 1.5; Temperature 25 ± 2 °C, in accordance to EN 60904-3

<table>
<thead>
<tr>
<th>Nominal power Pmax</th>
<th>365 Wp</th>
<th>370 Wp</th>
<th>375 Wp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage Voc</td>
<td>34.5 V</td>
<td>34.6 V</td>
<td>34.7 V</td>
</tr>
<tr>
<td>Nominal current Ipc</td>
<td>10.7 A</td>
<td>10.8 A</td>
<td>10.9 A</td>
</tr>
<tr>
<td>Open circuit voltage Voc</td>
<td>41.2 V</td>
<td>41.3 V</td>
<td>41.4 V</td>
</tr>
<tr>
<td>Short circuit current Isc</td>
<td>11.2 A</td>
<td>11.3 A</td>
<td>11.4 A</td>
</tr>
<tr>
<td>Module efficiency</td>
<td>19.6 %</td>
<td>19.9 %</td>
<td>20.2 %</td>
</tr>
</tbody>
</table>

Measurement tolerances: Pmax ±5 %; Voc ±3 %; Isc ±5 %, Ipc ±5 %

Reverse-current power rating Ioc: 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/m²; spectral distribution AM 1.5; Temperature 20 °C

Weak light conditions: Irradiation intensity 200 W/m², Temperature 25 °C, Wind speed 1 m/s, load operation

| Nominal power Pmax nmot | 271 W | 275 W | 279 W |
| Nominal power Pmax gwe | 71.4 W | 72.4 W | 73.3 W |

Measurement tolerances: Pmax ±5 %; Voc ±3 %; Ipc ±5 %, Ioc ±5 %

Reduction of module efficiency when irradiance is reduced from 1,000 W/m² to 200 W/m² (at 25 °C): 4 ± 2 % (relative) / -0.6 ± 0.3 % (absolute).