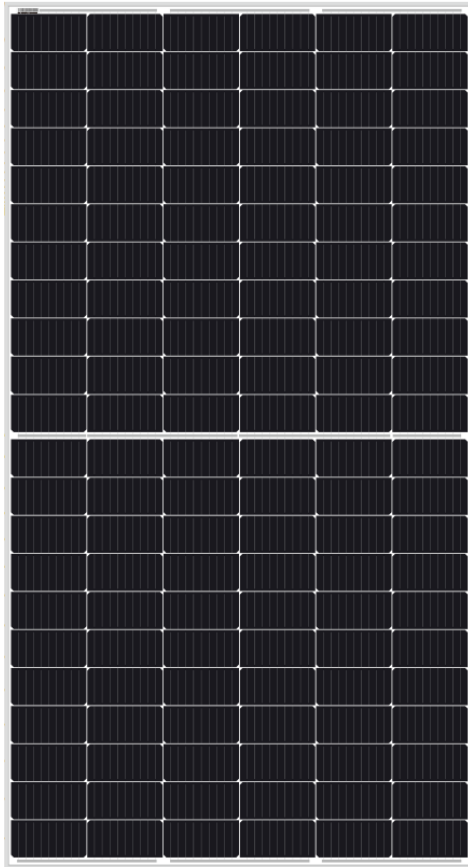


PRODUCT



SOLARWATT Panel classic AL 2.5 pure

Best price-performance ratio

Solid quality with high performance

With the classic models, Solarwatt offers affordable, robust, high-performance solar modules of proven quality. They are durable and high-yielding as well as resistant to weather effects and environmental influences.

The classic-modules are produced on state-of-the-art production lines and meet the high Solarwatt quality standards. They will therefore generate solar power well beyond their warranty period.

The modules come with a solid twenty-year product warranty.



PRODUCT QUALITY

- LeTID tested
- salt mist resistant
- ammonia resistant
- PID protected
- 100 % plus-sorting
- max. 5,400 / 3,600 Pa

SERVICE

Full Coverage insurance
optional (up to 1,000 kWp*)

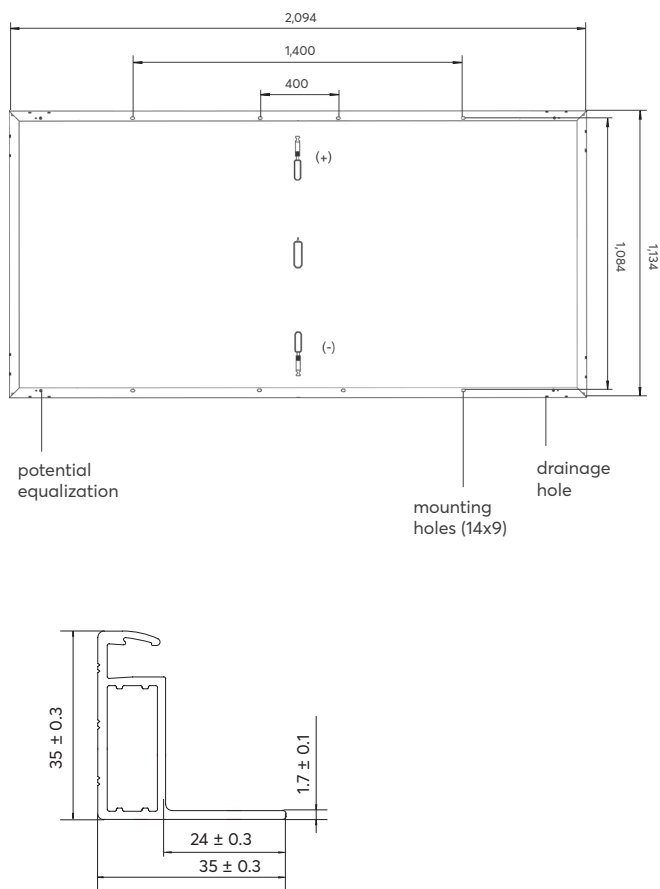
Simple returns policy
as per „Delivery terms for Solarwatt solar modules“

20 Year Product Warranty
as per valid „Warranty conditions for Solarwatt solar modules“

25 Year Performance Warranty
on 89.4 % of nominal power as per „Warranty conditions for Solarwatt solar modules“

* country-specific deviations apply

DIMENSIONS



GENERAL DATA

| | |
|---|---|
| Module technology | Glass-foil laminate; aluminum frame |
| Covering material | Tempered solar glass with anti-reflective finish, 3.2 mm |
| Encapsulation | Solar cells in POE encapsulation |
| Backing material | Multi-layer composite film, white |
| Solar cells | 132 monocrystalline high power TOPCon-solar cells |
| Cell dimensions | 182 x 91 mm |
| L x W x H / Weight | 2,094 ^{±2} x 1,134 ^{±2} x 35 ^{±0.3} mm / appr. 26 kg |
| Connection technology | Cables 2 x 1.3 m / 4 mm ² Connector Sunter PV-ZH202B |
| Bypass diodes | 3 |
| Max. system voltage | 1,500 V |
| IP rating | IP68 |
| Protection class | II (acc. to IEC 61140) |
| Fire class | C (acc. to IEC 61730) |
| Certified mechanical ratings as per IEC 61215 | Pressure load up to 3,600 Pa (test load 5,400 Pa) Suction load up to 2,400 Pa (test load 3,600 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 IEC TS 63342 (LeTID) IEC TS 62804 (PID) IEC 61701 IEC 62716 |

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

| | | |
|---|--------|--------|
| Nominal power P_{max} | 525 Wp | 530 Wp |
| Nominal voltage V_{mp} | 39.6 V | 39.8 V |
| Nominal current I_{mp} | 13.3 A | 13.3 A |
| Open circuit voltage V_{oc} | 47.5 V | 47.7 V |
| Short circuit current I_{sc} | 13.9 A | 13.9 A |
| Module efficiency | 22.1 % | 22.3 % |

Measurement tolerances: P_{max} ±5 %; V_{oc} ±10 %; I_{sc} ±10 %, I_{mp} ±10 %

Reverse-current power rating I_r: 25 A, operating modules with an external power source is only permissible if using a phase fuse with a tripping current of ≤ 25 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 P_{max @NMOT} | 395 W | 399 W |
| Nominal power P_{max @200 W/m²} | 98 W | 99 W |

Measurement tolerances: P_{max} ±5 %; V_{oc} ±10 %; I_{sc} ±10 %, I_{mp} ±10 %

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).

THERMAL FEATURES

| | |
|--|----------------|
| Operating temperature range | -40 ... +85 °C |
| Ambient temperature range | -40 ... +45 °C |
| Temperature coefficient P_{max} | -0.31%/K |
| Temperature coefficient V_{oc} | -0.25 %/K |
| Temperature coefficient I_{sc} | 0.06 %/K |
| NMOT | 45 °C |

TRANSPORT AND PACKAGING

| | |
|---|--------------------------|
| Modules per pallet | 31 |
| Modules per container | 682 |
| Pallets per truck | 12 / 24 |
| Modules per truck | 372 / 744 |
| Gross weight per pallet | 844 / 1,688 kg |
| Pallet dimensions (packing size) | 2,145 x 1,140 x 1,250 mm |