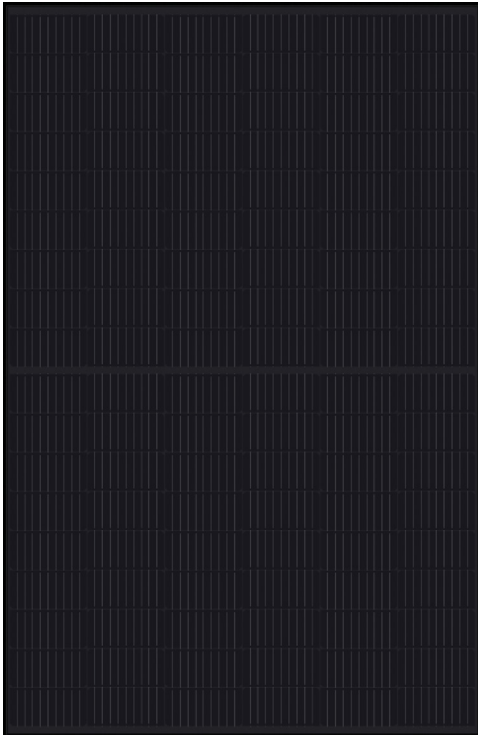


PRODUCT



SOLARWATT Panel classic H 2.0 black

Glass-Foil-Module

Best price-performance ratio

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 15-year product guarantee.



PRODUCT QUALITY

- ammonia resistant
- salt mist resistant
- LeTID tested
- PID protected
- 100% plus-sorting
- max. 5,400 / 2,400 Pa

SERVICE

FullCoverage insurance
optional (up to 1,000 kWp*)

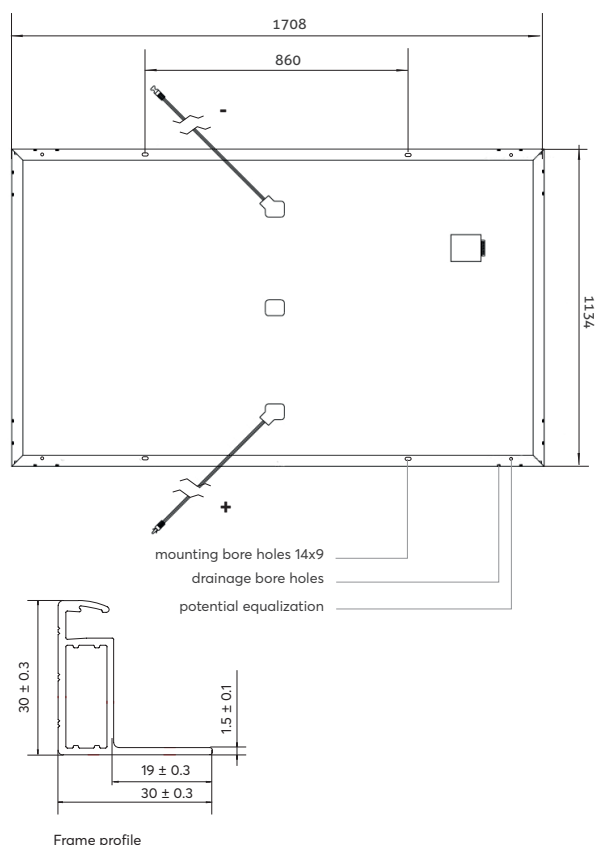
simple returns policy
as per „Delivery terms for Solarwatt solar modules“

15 year product warranty
12 years product warranty outside Europe and Australia
as per „Warranty conditions for Solarwatt solar modules“

25 year performance warranty
on 84.8 % 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, black |
| Covering material | Tempered solar glass with anti-reflective finish |
| Encapsulation | Solar cells in polymer encapsulation |
| Backing material | Multi-layer composite film, black |
| Solar cells | 108 monocrystalline high power PERC solar cells |
| Cell dimensions | 182 x 91 mm |
| L x W x H / Weight | 1,708 x 1,134 ^{±2} x 30 ^{±0.3} mm / ca. 20.0 kg |
| Connection technology | Cables 2x 1.2 m / 4 mm ² , Stäubli Electrical MC4 or MC4-type connectors |
| Bypass diodes | 3 |
| Max. system voltage | 1,000 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 1,600 Pa (test load 2,400 Pa) |
| Recommended stress load as per Installation Instructions | Please refer to the specifications in the Installation Instructions and Warranty Conditions. |
| Qualifications | IEC 61215 (incl. LeTID) IEC 61730 2 PFG 2387 (PID) IEC 61701 IEC 62716 MCS 005 |

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} | 390 Wp | 395 Wp | 400 Wp |
| Nominal voltage V_{mp} | 30.0 V | 30.2 V | 30.4 V |
| Nominal current I_{mp} | 13.0 A | 13.1 A | 13.2 A |
| Open circuit voltage V_{oc} | 37.0 V | 37.1 V | 37.2 V |
| Short circuit current I_{sc} | 13.4 A | 13.5 A | 13.6 A |
| Module efficiency | 20.3 % | 20.5 % | 20.8 % |

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

Reverse-current power rating I_r: 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 P_{max} @NMOT | 292 W | 296 W | 300 W |
| Nominal power P_{max} @200 W/m² | 76.0 W | 77.0 W | 78.0 W |

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

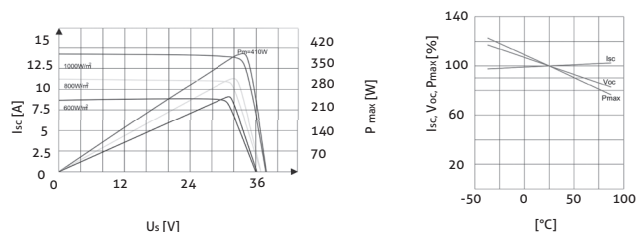
Reduction of module efficiency when irradiance is reduced from 1,000 W/m² to 200 W/m² (at 25 °C): 4 ± 2 % (relative) / -0.6 ± 0.3 % (absolute).

THERMAL FEATURES

| | |
|--|----------------|
| Operating temperature range | -40 ... +85 °C |
| Ambient temperature range | -40 ... +45 °C |
| Temperature coefficient P_{max} | -0.33 %/K |
| Temperature coefficient V_{oc} | -0.25 %/K |
| Temperature coefficient I_{sc} | 0.05 %/K |
| NMOT | 44 °C |

CHARACTERISTIC LINES (Performance Class 400 Wp)

Voltage characteristic line at different temperatures and irradiances



TRANSPORT AND PACKAGING

| | |
|---|--------------------------|
| Modules per pallet | 36 |
| Modules per container | 936 |
| Pallets per truck | 15 / 30 |
| Modules per truck | 540 / 1,080 |
| Gross weight per pallet | 760 / 1,520 kg |
| Pallet dimensions (packing size) | 1,750 x 1,140 x 1,250 mm |