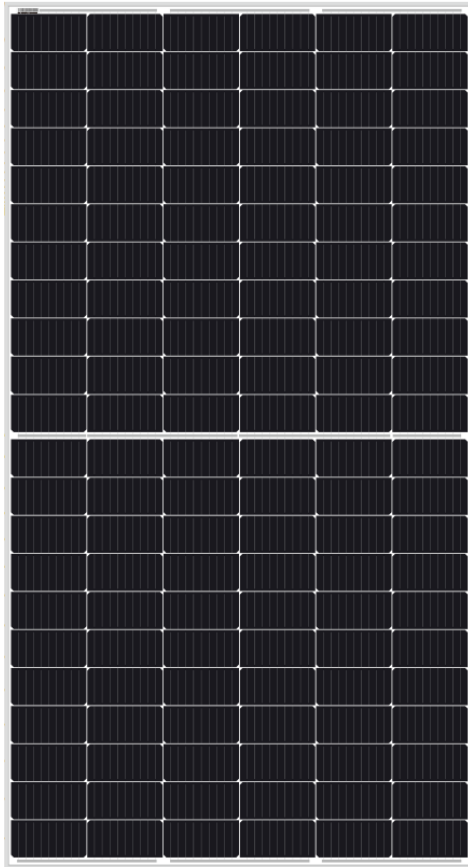


PRODUCT



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*)

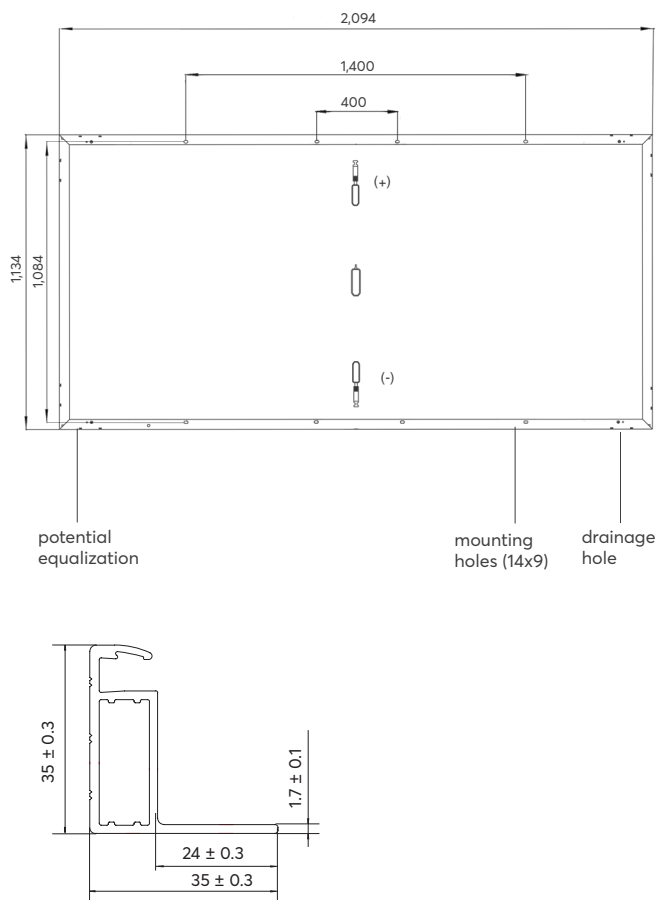
Simple returns policy
as per „Delivery terms for Solarwatt solar modules“

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
Encapsulation	Solar cells in polymer 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
Nominal voltage V _{mp}	39.6 V
Nominal current I _{mp}	13.3 A
Open circuit voltage V _{oc}	47.5 V
Short circuit current I _{sc}	13.9 A
Module efficiency	22.1 %

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
Nominal power P _{max @200 W/m²}	98 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	836 / 1,672 kg
Pallet dimensions (packing size)	2,145 x 1,140 x 1,250 mm