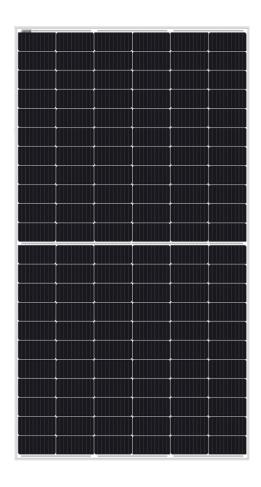
PRODUCT



SOLARWATT Panel classic AL 2.1 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 twelve-year product guarantee.

* also available as a low carbon option with a particularly low CO₂ footprint (< 550 kg CO₂ eq / kWp).

C€ □



PRODUCT QUALITY

- LeTID tested
- salt mist resistant
- ammonia resistant
- PID protected
- 100 % plus-sorting
- max. 6,300 / 2,800 Pa

SERVICE

FullCoverage insurance

optional (up to 1,000 kWp*)

Simple returns policy

as per "Delivery terms for Solarwatt solar modules"

12 Year Product Warranty

as per valid "Warranty conditions for Solarwatt solar modules"

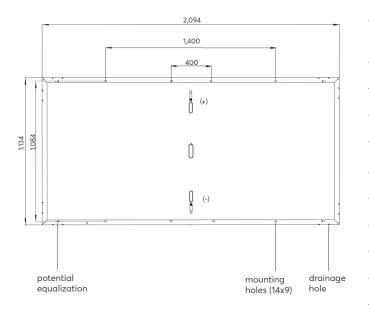
25 Year Performance Warranty

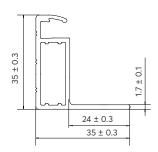
on 84.8 % of nominal power as per "Warranty conditions for Solarwatt solar modules"

^{*} country-specific deviations apply



DIMENSIONS





GENERAL DATA

Module technology	Glass-foil laminate; aluminum frame
Covering material Encapsulation Backing material	Tempered solar glass with anti-reflective finish Solar cells in polymer encapsulation Multi-layer composite film, white
Solar cells	132 monocrystalline high power PERC-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 / 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 4,200 Pa (test load 6,300 Pa) Suction load up to 1,867 Pa (test load 2,800 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 2 PfG 2387 (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 \pm 2 °C, in accordance to EN 60904-3

Nominal power P _{max}	500 Wp	505 Wp
Nominal voltage V _{mp}	37.8 V	38.0 V
Nominal current Imp	13.2 A	13.3 A
Open circuit voltage Voc	45.6 V	45.7 V
Short circuit current Isc	14.1 A	14.1 A
Module efficiency	21.1 %	21.3 %

Measurement tolerances: P_{max} ± 5 %; Voc ± 10 %; Isc 10 %, IMP ± 10 %

Reverse-current power rating I $_{\rm R}$: 20 A, operating modules with an external power source is only permissible if using a phase fuse with a tripping current of \leq 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}	402 W	406 W
Nominal power P _{max @200 W/m²}	98.6 W	99.6 W

Measurement tolerances: P_{max} ± 5 %; V_{OC} ± 10 %; Isc ± 10 %, IMP ± 10 %

Reduction of module efficiency when irradiance is reduced from 1,000 W/m² to 200 W/m² (at 25 °C): 4 \pm 2 % (relative) / –0.6 \pm 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 Voc	-0.25 %/K	
Temperature coefficient Isc	0.05 %/K	
NMOT	42 °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	_