PRODUCT



SOLARWATT Panel vision GM 3.0 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-cutcells enable modules that are optimized for maximum performance.

SOLARWATT

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
- max. 12,150/ 5,400 Pa



Subject to change | Errors excepted

This data sheet fulfills the requirements listed in IEC 61215-1-1 | EN Cradle to Cradle Certified® is a registered trademark of the Cradle to Cradle Products Innovation Institute. SERVICE

Simple returns policy as per "Delivery terms for Solarwatt solar modules"

30 Year Product Warranty as per "Warranty conditions for SOLARWATT Panel vision"

30 Year Performance Warranty on 90 % of nominal power as per "Warranty conditions for SOLARWATT Panel vision"



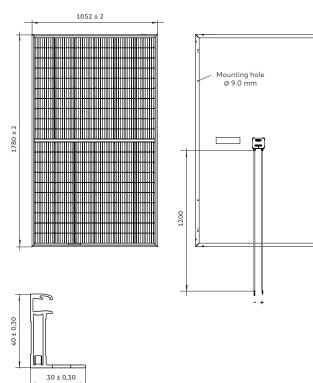
Product Scorecard	
Material Health	Silver
Material Reutilization	Silver
Renewable Energy & Carbon Management	Gold
Water Stewardship	Silver
Social Fairness	Gold
Overall Certification Level	SILVER

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DIMENSIONS



Module technology	Glass-glass laminate; aluminum frame
Covering material Encapsulation Backing material	Tempered solar glass with anti-reflective finish, 2mm Solar cells in polymer encapsulation, white Tempered glass, 2mm
Solar cells	120 monocrystalline high power PERC-solar cells
Cell dimensions	166 x 83 mm
L x W x H / Weight	1,780 ^{±2} x 1,052 ^{±2} x 40 ^{±0,3} mm / appr. 25 kg
Connection technology	Cables 2 x 1,2 m/ 4 mm² Stäubli Electrical MC4 or MC4-type 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) E (acc. to EN 13501-1) B _{ROOF} (t1) (acc. to EN13501-5)
Certified mechanical ratings as per IEC 61215	Pressure load up to 8,100 Pa (test load 12,150 Pa) Suction load up to 3,600 Pa (test load 5,400 Pa)
Recommended stress load as per Installation Instructions	Please refer to the specifications in the Installa- tion Instructions and Warranty Conditions.
Qualifications	IEC 61215 IEC 61730 LeTID IEC 61701 IEC 62804 IEC 62716 MCS 005

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}	370 Wp	375 Wp	380 Wp	385 Wp
Nominal voltage Vmp	34.5 V	34.9 V	35.3 V	35.7 V
Nominal current Imp	10.8 A	10.8 A	10.8 A	10.9 A
Open circuit voltage Voc	41.4 V	41.5 V	41.6 V	41.8 V
Short circuit current lsc	11.4 A	11.4 A	11.4 A	11.5 A
Module efficiency	19.9 %	20.2 %	20.4 %	20.7 %
M		40.0/ 1 140	0/ 1 140.0/	

Measurement tolerances: P_{max} ±5 %; V_{oc} ±10 %; I_{sc} ±10 %, I_{MP} ±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}	277 W	281 W	284 W	288 W
Nominal power P _{max @200 W/m²}	72.4 W	73.4 W	74.3 W	75.3 W

Measurement tolerances: P_max ±5 %; Voc ±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

GENERAL DATA

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Operating temperature range	-40 +85 °C
Ambient temperature range	-40 +45 °C
Temperature coefficient P _{max}	-0.34 %/K
Temperature coefficient Voc	-0.27 %/K
Temperature coefficient Isc	0.04 %/K
NMOT	44 °C

TRANSPORT AND PACKAGING

Modules per pallet	32	
Pallet dimensions (gross) L x W x H	1,800 x 1,070 x 1,550 mm	
Gross weight per pallet	847 kg	
Pallets per truck	14	
Modules per truck	448	