SOLARWATT®

PRODUCT



C€ □

PRODUCT QUALITY

- 100 % plus-sorting
- ammonia resistant
- intensive hailstorm resistant

Vision 60M (slim edition) 330 Wp

Glass-glass module

Low weight with high performance

The Vision 60M (slim edition) 330 Wp is slightly thinner than other Solarwatt glass-glass panels, making it lighter in weight and therefore easier to install. The white background layer provides extra reflection of sunlight to the solar cells, which benefits the performance of the Vision 60M (slim edition).

Thanks to years of experience, the use of best components and a fully automated production process, Solarwatt's glass modules deliver the highest yields for decades. Our commitment to quality results in robust and highly resilient solar modules.

The Solarwatt FullCoverage insurance is included for 5 years and free of charge. It insures almost all risks and takes effect even if the modules do not produce electricity or deliver less than expected in the event of damage.

SERVICE

FullCoverage insurance

included (up to 1,000 kWp*).

Simple returns policy

as per "Delivery terms for Solarwatt solar modules"

30 Years Product Warranty

as per "Warranty conditions for Solarwatt solar modules

30 Years Performance Warranty

on 87 % of nominal power as per "Warranty conditions for Solarwatt solar modules"

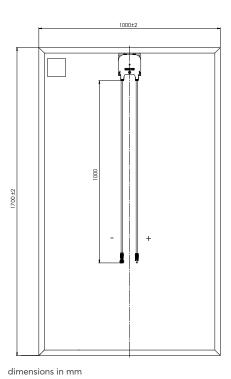




^{*} country-specific deviations apply



DIMENSIONS



Module technology Glass-glass laminate; aluminum frame, black Tempered solar glass with anti-reflective finish, 2 mm Covering material Encapsulation Solar cells in polymer encapsulation, white **Backing material** Tempered glass, 2 mm Solar cells 60 monocrystalline high power PERC-solar cells Cell dimensions 159 x 159 mm LxWxH/Weight 1,700 $^{\pm\,2}$ x 1,000 $^{\pm\,2}$ x 35 $^{\pm\,0,3}$ mm / appr. 22.0 $^{\pm\,0,5}$ kg Connection Cables 2 x 1.0 m / 4 mm² technology Stäubli Electrical MC4-connectors Bypass diodes 3 Max. system voltage 1,000 V IP rating II (acc. to IEC 61140) **Protection class** Fire class C (acc. to IEC 61730/UL 790)

Suction load up to 2,400 Pa

Pressure load up to 5,400 Pa (test load 8,100 Pa)

Please refer to the specifications in the Installation Instructions and Warranty Conditions.

(test load 3,600 Pa)

IEC 61215 | IEC 61730

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}	330 Wp
Nominal voltage V _{mp}	34.1 V
Nominal current Imp	9.7 A
Open circuit voltage Voc	40.6 V
Short circuit current Isc	10.4 A
Module efficiency	19.4 %

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

Reverse-current power rating I_R : 15 A, operating modules with an external power source is only permissible if using a phase fuse with a tripping current of \leq 15 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}	258 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 \pm 2 % (relative) / -0.6 \pm 0.3 % (absolute).

THERMAL FEATURES

Certified mechanical

ratings as per IEC 61215

Recommended stress

Qualifications

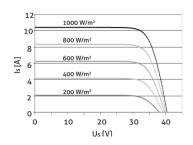
load as per Installation Instructions

GENERAL DATA

Operating temperature range	-40 +85 °C
Ambient temperature range	-40 +45 °C
Temperature coefficient P _{max}	-0.39 %/K
Temperature coefficient Voc	-0.28 %/K
Temperature coefficient Isc	0.04 %/K
NMOT	45 °C

CHARACTERISTIC LINES (PERFORMANCE CLASS 330 WP)

Voltage characteristic line at different temperatures and irradiations



TRANSPORT AND PACKAGING

Modules per pallet	30
Pallet dimensions (packing size)	1,750 x 1,050 x 1,250 mm
Gross weight per pallet	ca. 695 kg (max.)
Pallets per truck	15 / 30
Modules per truck	450 / 900