

Glass-Glass-Module: SOLARWATT 36P *new*



The innovative glass-glass generation

- Super lightweight thanks to glass just 2mm thick
- Exceptionally reliable yield rates
- Improved mechanical strength
- 100% protection against PID
- Increased fire protection

SOLARWATT 36P

- Polycrystalline solar cells
- 150 Wp (100 % plus sorting)



*Test requirements: see rear of data sheet

SOLARWATT Service



SOLARWATT Total Protection

included (up to 1.000 kWp)



Take-back service

as per Delivery Terms for SOLARWATT Solar Modules



Country of origin

Quality made in Germany



Product-warranty

as per Special Warranty Conditions for SOLARWATT Solar Modules



Performance-warranty

as per Special Warranty Conditions for SOLARWATT Solar Modules

Product Quality



long-lasting



innovative



resistant against ammonia



resilient



low-glare



resistant against hail



high-yield



safe



resistant against salt mist

SOLARWATT Expert Installer

Technical Data Glass-Glass-Module: SOLARWATT 36P

Dimensions	
Lx B x D	1.520 x 672 x 40 mm (+/-2 mm)
Connection technology	Cables 2 x 1,0 m/4 mm ² , PV4 - Connector, Plug in arrangement analog MC4
Weight	ca. 15 kg

Electrical Data (STC)	
STC: Standard Test Conditions: Irradiation intensity 1000 W/m ² , spectral distribution AM 1.5 temperatur 25±2 °C, in accordance EN 60904-3	
	SOLARWATT 36P
Nominal power P _N	150 Wp
Nominal voltage U _{mpp}	17,9 V
Nominal current I _{mpp}	8,39 A
Open circuit voltage U _{oc}	22,4 V
Short circuit current I _{sc}	8,83 A
IR*	20 A
Measurement tolerance in reference to P _{max} ±5%; Reduction of module efficiency when irradiance is reduced from 1000 W/m ² to 200 W/m ² (at 25 °C): 4 ± 2% (relative) / -0,6 ± 0,3% (absolute). * Reverse- current power rating: Operating modules with an external power source is only permissible if using a phase fuse with a tripping current of < 20 A.	

Electrical Data (NOCT)	
NOCT: Normal Operation Cell Temperature: Irradiation intensity 800 W/m ² , AM 1,5 temperatur 20 °C, Wind speed 1m/s, open circuit operation	
	SOLARWATT 36P
Nominal power P _N	111 W
Nominal voltage U _{mpp}	16,5 V
Nominal circuit voltage U _{oc}	21,0 V
Short circuit current I _{sc}	7,14 A

General Data	
Module technology	Glass- glass laminate, aluminum frame
Covering material	High-transparency solar glass, 2 mm
Encapsulation	EVA-solar cells-EVA, white
Backing material	Solar glass, 2 mm
Solar cells	36 polycrystalline solar cells
Cell dimensions	156 x 156 mm
Bypass diodes	2
Application class	Application class A (acc. to IEC 61730)
Max. system voltage	1000 V
Mechanical Ratings	Suction load up to 10,000 Pa as per IEC 61215 Ed. Applied load up to 18,000 Pa
Approved stress load	Applied load up to 7,600 Pa (when installed crosswise ¹⁾) as per SOLARWATT Installation Instructions Test condition: sliding load of 18,000 Pa (conditions take into account safety factors for snow overhang and ice load per Eurocode 1.) ¹⁾ Please refer to the specifications in the installation instructions.
Qualifications	IEC 61215 Ed.2 IEC 61730 (including Protection Class II)

Characteristic Lines	
Voltage characteristic line at different temperatures and irradiation	
Performance class 150 Wp SOLARWATT 36P	

Thermal Features	
	SOLARWATT 36P
Operating temperature range	-40 ... +85 °C
Ambient temperature range	-40 ... +45 °C
Temperature coefficient P _N	-0,34%/K
Temperature coefficient U _{oc}	-0,30%/K
Temperature coefficient I _{sc}	0,06%/K
NOCT	45 °C