

SUN EARTH®

PV-MODULE 285 WP

POLY-CRYSTALLINE TPB 156*156-72-P



- HIGH PERFORMANCE SILICON MODULES
- IEC CERTIFICATE
- 100% INTEGRATED QUALITY CONTROL BY SIG SOLAR GMBH
- GERMAN EFFICIENCY AND PRODUCT GUARANTEE
- 7 YEARS PRODUCT GUARANTEE
- 25 YEARS 80 %
10 YEARS 90 %
- POWER TOLERANCE +3%/-3%



• Regelmäßig überwacht
• Geprüft, IEC 61215
• Safety tested, IEC 61730



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Sun Earth®

by



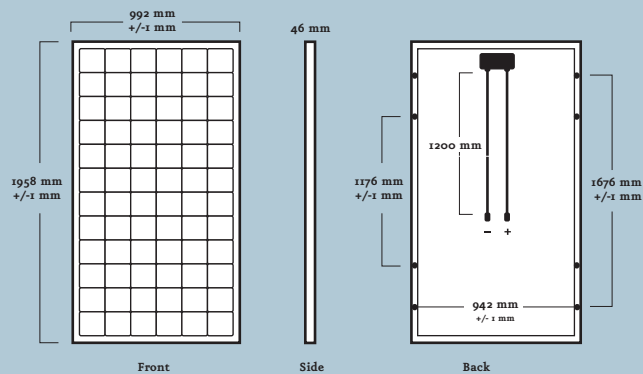
ELECTRICAL CHARACTERISTICS

Maximum power (P_{mpp}):	285 Watt
Power tolerance (ΔP_{mpp}):	+3/-3 %
Maximum power voltage (U_{mpp}):	35.1 Volt
Maximum power current (I_{mpp}):	8.12 Ampere
Open circuit voltage (U_{oc}):	44.1 Volt
Short circuit current (I_{sc}):	8.51 Ampere
Max. series fuse rating (A):	12 Ampere
Max. system voltage (class II):	750 VDC
Max. system voltage (IEC61215):	1000 VDC
Module efficiency:	14.5 %
Temp. coefficient	
Power:	- (0,45±0,05) %/°C
Maximum power voltage	- (0,4±0,05) %/°C
Maximum power current	+ (0,025±0,015) %/°C
Open circuit voltage	- (0,35±0,02) %/°C
Short circuit current	+ (0,04±0,015) %/°C
NOCT:	47 ± 2 °C
Number of cells:	72
Size of cells:	156 x 156 mm

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DIMENSIONS



MECHANICAL CHARACTERISTICS

Weight:	27 kg
Frame structure:	Aluminium anodized
Front side:	Glas ¹
Front glass thickness:	3,2 mm
Encapsulant:	EVA ²
Back side:	TPT ³
Junction box:	IP65
Bypass diode:	Three à 10 Amp
Plug system:	Compatible with MC-T4

ABSOLUTE MAXIMUM RATINGS

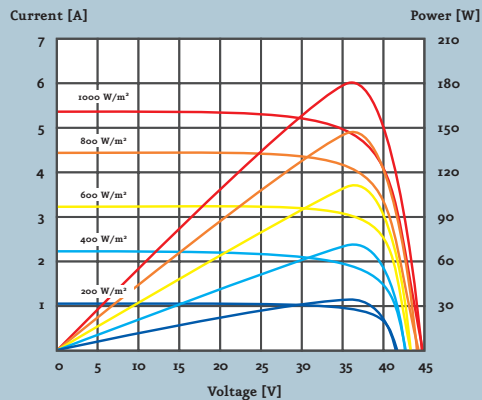
Operating temperature:	-40 °C ~ +90 °C
Storage temperature:	-40 °C ~ +90 °C
Maximum load capacity:	560 Kg/m ²
Maximum hail diameter:	25 mm at 80 Km/h

¹ highly transparent, anti-reflective, self-cleaning solar-safety-glass

² EVA, HZF-L-0406 by First Hot-Melt Adhesive Film Co., Ltd.

³ PTL3-38/75TWH by August Krempel & Soehne GmbH

I-V-CURVES



STANDARD TEST CONDITIONS

AM:	1,5
Irradiation:	1000 W/m ²
TC:	25 °C

TRANSPORT INFORMATION

Packing configuration:	20 pcs per carton
Size of carton:	1970 x 1025 x 980 mm
Weight of carton:	520 / 560 kg
Cartons per 40" container:	22
Pallets per 40" container:	22

