

SUN EARTH®

PV-MODULE 285/295 W_p
POLYCRYSTALLINE TPB 156×156-72-P



„Figure may differ“

- HIGH PERFORMANCE SILICON MODULES
- CERTIFIED WITH IEC STANDARDS
- 100 % INTEGRATED QUALITY CONTROL BY SiG SOLAR GMBH
- GERMAN PERFORMANCE AND PRODUCT WARRANTY
- 10 YEARS PRODUCT WARRANTY
- 25 YEARS 80 % PERFORMANCE WARRANTY
10 YEARS 90 % PERFORMANCE WARRANTY
- POWER TOLERANCE -0W UP TO +5W
- MODULE EFFICIENCY 15,2% (295 W_p)
- SUN EARTH IS PV CYCLE MEMBER (2013)



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SUN EARTH by **SiG**
Energie natürlich mit Service **SOLAR**

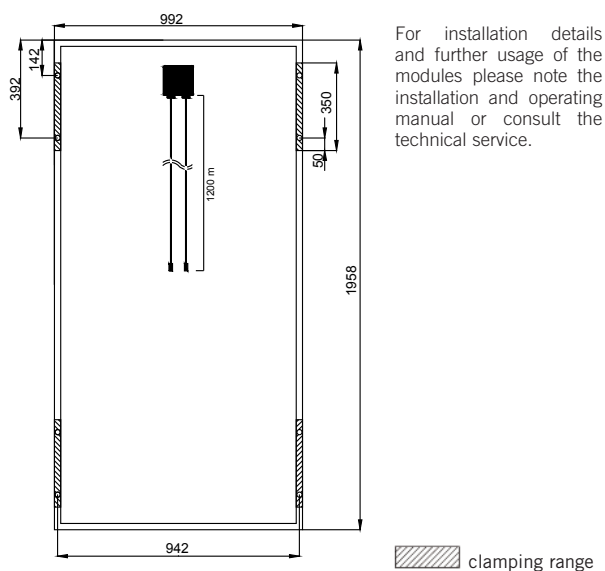
TECHNICAL DATA

SUN EARTH®

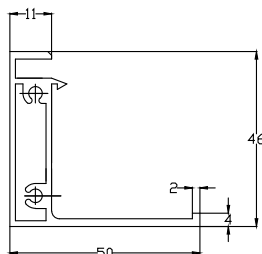
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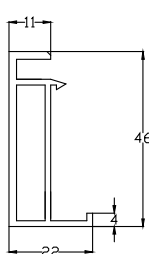
DIMENSIONS



Frame long side



Frame short side



LIMITS

Max. system voltage (IEC):	1000 VDC
Max. reverse-current I_R :	16 A
Operating temperature (environment):	-40 °C up to +85 °C
Max. hail resistance:	25 mm at 23 m/s
Max. wind resistance:	2400 Pa
Max. snow load (front):	5400 Pa
Application class:	A
Fire resistance class:	C
Safety class:	II

TRANSPORT INFORMATION

Packaging unit:	20 per carton
Packaging unit size:	(1990 x 1030 x 980) mm
Packaging unit weight:	490 kg
Packaging unit per 40' container:	22,5 cartons (450 modules)

ELECTRICAL DATA (STC)

Max. power (P_{mpp}):	285 W	295 W
Max. voltage (U_{mpp}):	35,1 V	35,3 V
Max. current (I_{mpp}):	8,12 A	8,36 A
Open circuit voltage (U_{oc}):	44,1 V	44,3 V
Short circuit current (I_{sc}):	8,51 A	8,67 A

ELECTRICAL DATA (NOCT)

Max. power (P_{mpp}):	208,5 W	214,4 W
Max. voltage (U_{mpp}):	31,9 V	32,1 V
Max. current (I_{mpp}):	6,52 A	6,72 A
Open circuit voltage (U_{oc}):	40,8 V	41,0 V
Short circuit current (I_{sc}):	6,89 A	7,02 A

ELECTRICAL DATA (general)

Cell temperature (T_{NOCT}):	46 °C	
Module efficiency:	14,7%	15,2%
Tolerance of performance:	-0W up to +5W	

- STC-Irradiation: 1000 W/m²; AM: 1,5; T_C : 25 °C
- NOCT-Irradiation: 800 W/m²; T_A : 20 °C; wind speed: 1 m/s
- Average reduction of module efficiency at decreasing irradiation from 1000 W/m² to 200 W/m² (at AM: 1,5 & T_C : 25 °C) ≤ 4,5% - according EN 60904-1

GENERAL CHARACTERISTICS

Composition:	72 (156 x 156 mm) polycrystalline silicon solar cells per module; 3 bypass-diodes; encapsulant EVA; rear cover TPT
Glass:	highly transparent, anti-reflective solar safety glass; 3,2 mm
Frame:	anodized aluminum
Junction box:	plastic; IP65;
Cable:	4 mm ² ; 1200 mm
Connectors:	MC-T4-compatible

TEMPERATURE COEFFICIENTS

Power:	- 0,45 %/°C
Open circuit voltage:	- 0,32 %/°C
Short circuit current:	0,05 %/°C

MECHANICAL DATA

Height:	1958 mm
Width:	992 mm
Thickness:	46 mm
Weight:	23,5 kg

CERTIFICATES/STANDARDS

Standards: IEC 61215; IEC 61730; ISO 9001; ISO 14001
 Conformity: Datasheet according to DIN EN 50380