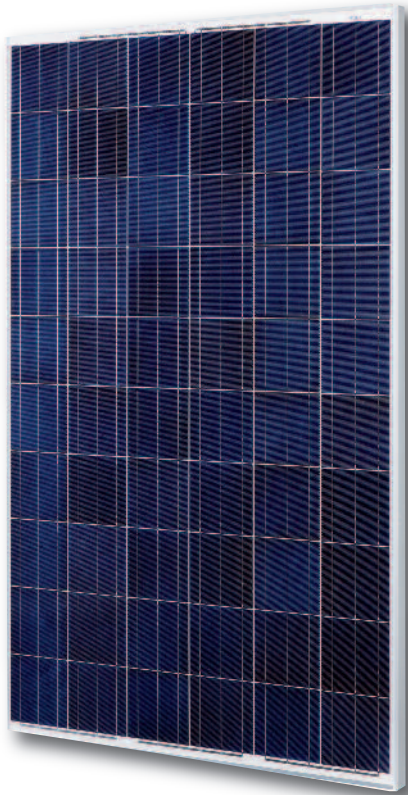


# SUN EARTH®

PV-MODULE 235/240/245/250 W<sub>p</sub>  
POLYCRYSTALLINE TPB 156×156-60-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 15,3% (250 W<sub>p</sub>)
- SUN EARTH IS PV CYCLE MEMBER (2013)

SiG Solar GmbH  
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info@sigsolar.com  
www.sigsolar.com



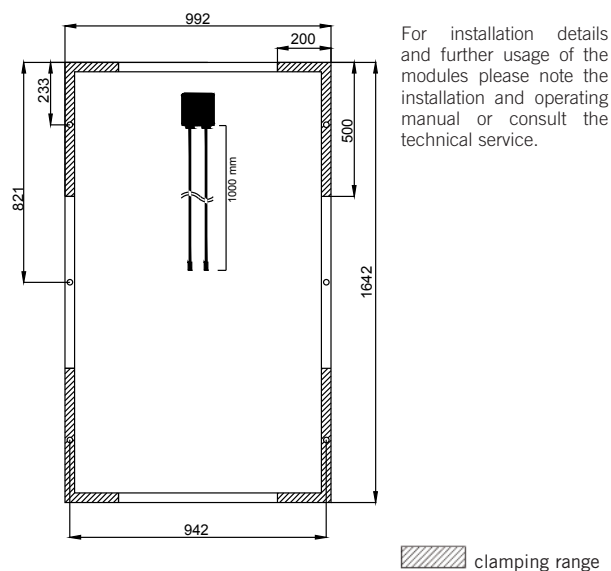
**SUN EARTH** by **SiG**  
Energie natürlich mit Service **SOLAR**

## TECHNICAL DATA

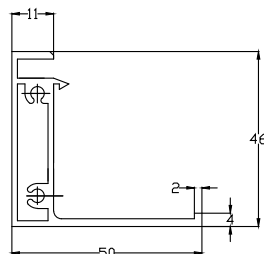
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PV-MODULE 235/240/245/250 W<sub>p</sub>  
POLYCRYSTALLINE TPB 156x156-60-P

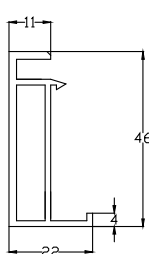
### DIMENSIONS



Frame long side



Frame short side



### LIMITS

Max. system voltage (IEC):	1000 VDC
Max. reverse-current I <sub>R</sub> :	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:	(1680 x 1030 x 980) mm
Packaging unit weight:	420 kg
Packaging unit per 40' container:	28 cartons (560 modules)

### ELECTRICAL DATA (STC)

Max. power (P <sub>mpp</sub> ):	235 W	240 W	245 W	250 W
Max. voltage (U <sub>mpp</sub> ):	29,2 V	29,3 V	29,4 V	29,5 V
Max. current (I <sub>mpp</sub> ):	8,05 A	8,19 A	8,34 A	8,47 A
Open circuit voltage (U <sub>oc</sub> ):	36,7 V	36,8 V	36,9 V	37,0 V
Short circuit current (I <sub>sc</sub> ):	8,47 A	8,58 A	8,68 A	8,78 A

### ELECTRICAL DATA (NOCT)

Max. power (P <sub>mpp</sub> ):	171,3 W	174,6 W	178,2 W	187,7
Max. voltage (U <sub>mpp</sub> ):	26,6 V	26,7 V	26,8 V	26,8 V
Max. current (I <sub>mpp</sub> ):	6,44 A	6,54 A	6,65 A	6,81 A
Open circuit voltage (U <sub>oc</sub> ):	34,0 V	34,1 V	34,2 V	34,3 V
Short circuit current (I <sub>sc</sub> ):	6,86 A	6,95 A	7,03 A	7,11 A

### ELECTRICAL DATA (general)

Cell temperature (T <sub>NOCT</sub> ):	46 °C
<b>Module efficiency:</b>	<b>14,4% 14,7% 15,0% 15,3%</b>
Tolerance of performance:	-0 W to +5 W

- STC-Irradiation: 1000 W/m<sup>2</sup>; AM: 1,5; T<sub>C</sub>: 25 °C
- NOCT-Irradiation: 800 W/m<sup>2</sup>; T<sub>A</sub>: 20 °C; wind speed: 1 m/s
- Average reduction of module efficiency at decreasing irradiation from 1000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> (at AM: 1,5 & T<sub>C</sub>: 25 °C) ≤ 4,5% - according EN 60904-1

### GENERAL CHARACTERISTICS

Composition:	60 (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 <sup>2</sup> ; 1000 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:	1642 mm
Width:	992 mm
Thickness:	46 mm
Weight:	20 kg

### CERTIFICATES/STANDARDS

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