

SUN EARTH®

PV-MODULE 240/245/250/255 W_p
POLYCRYSTALLINE TPB 156×156-60-P

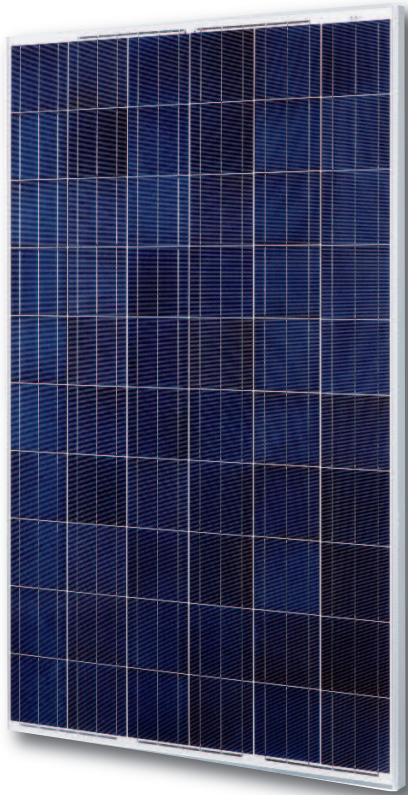


Figure may differ

- 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 -0 W UP TO +5 W
- MODULE EFFICIENCY 15.7 % (255 W_p)
- SUN EARTH IS PV CYCLE MEMBER



SIG SOLAR

SiG Solar GmbH

Ernst-Abbe-Straße 6

D-28816 Stuhr

T + 49 (0) 421.278 37 77

F + 49 (0) 421.278 37 79

info@sigsolar.com

www.sigsolar.com

SUN EARTH
Energy - naturally with service

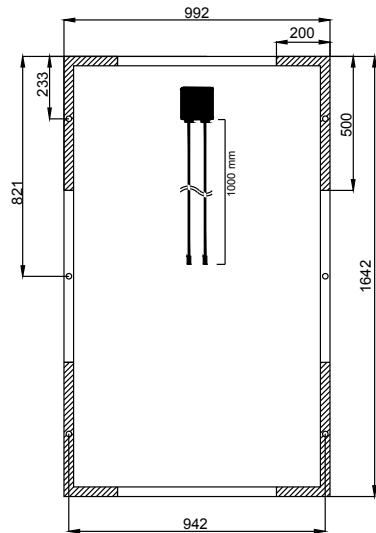
TECHNICAL DATA

SUN EARTH®

PV-MODULE 240/245/250/255 W_p

POLYCRYSTALLINE TPB 156 x 156-60-P

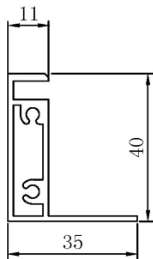
DIMENSIONS



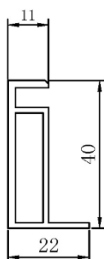
For installation details and further usage of the modules please note the installation and operating manual or consult the technical service.

 clamping range

Frame long side



Frame short side



LIMITS

Max. system voltage (IEC):	1,000 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:	2,400 Pa
Max. snow load (front):	5,400 Pa
Application class:	A
Fire resistance class:	C
Safety class:	II

CERTIFICATES/STANDARDS

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

ELECTRICAL DATA (STC)

Max. power (P _{mpp}):	240 W	245 W	250 W	255 W
Max. voltage (U _{mpp}):	29.3 V	29.4 V	29.5 V	29.6 V
Max. current (I _{mpp}):	8.19 A	8.34 A	8.47 A	8.61 A
Open circuit voltage (U _{oc}):	36.8 V	36.9 V	37.0 V	37.1 V
Short circuit current (I _{sc}):	8.58 A	8.68 A	8.78 A	8.89 A

ELECTRICAL DATA (NOCT)

Max. power (P _{mpp}):	174.6 W	178.2 W	181.7 W	185.4 W
Max. voltage (U _{mpp}):	26.7 V	26.8 V	26.9 V	27.0 V
Max. current (I _{mpp}):	6.54 A	6.65 A	6.76 A	6.87 A
Open circuit voltage (U _{oc}):	34.1 V	34.2 V	34.3 V	34.4 V
Short circuit current (I _{sc}):	6.95 A	7.03 A	7.11 A	7.20 A

ELECTRICAL DATA (general)

Cell temperature (T _{NOCT}):	46 °C			
Module efficiency:	14.7 %	15 %	15.3 %	15.7 %
Tolerance of performance:	-0 W to +5 W			

- STC-Irradiation: 1,000 W/m²; AM: 1.5; T_c: 25 °C
- NOCT-Irradiation: 800 W/m²; T_c: 20 °C; wind speed: 1 m/s
- Average reduction of module efficiency at decreasing irradiation from 1,000 W/m² to 200 W/m² (at AM: 1.5 & T_c: 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 ² ; 1,000 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:	1,642 mm
Width:	992 mm
Thickness:	40 mm
Weight:	19 kg