

SUN EARTH®

PV-MODULE 250/260 W_p

MONOCRYSTALLINE TDB 125×125-96-P



- 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 +10W
- MODULE EFFICIENCY 15,3% (260 W_p)
- SUN EARTH IS PV CYCLE MEMBER (2013)



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

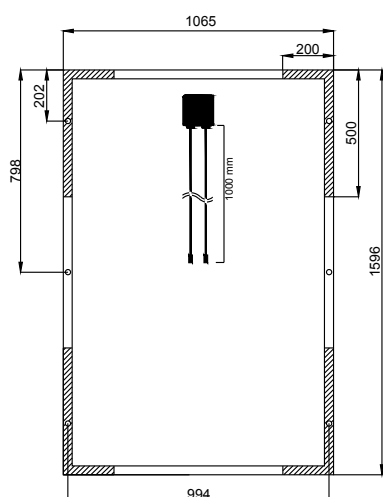
TECHNICAL DATA

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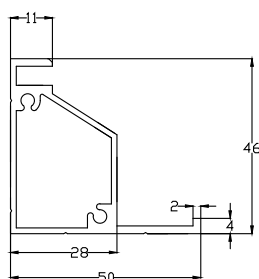
DIMENSIONS



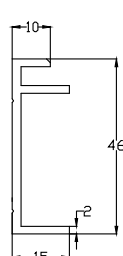
For installation details and further usage of the modules please note the installation and operating manual or consult the technical service.

clamping range

Frame long side



Frame short side



LIMITS

Max. system voltage (IEC):	1000 VDC
Max. reverse-current I_R :	10 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:	(1630 x 1100 x 980) mm
Packaging unit weight:	430 kg
Packaging unit per 40' container:	28 cartons (560 modules)

ELECTRICAL DATA (STC)

Max. power (P_{mpp}):	250 W	260 W
Max. voltage (U_{mpp}):	48,6 V	49,0 V
Max. current (I_{mpp}):	5,15 A	5,31 A
Open circuit voltage (U_{oc}):	59,8 V	60,2 V
Short circuit current (I_{sc}):	5,38 A	5,48 A

ELECTRICAL DATA (NOCT)

Max. power (P_{mpp}):	183 W	190,4 W
Max. voltage (U_{mpp}):	44,2 V	44,6 V
Max. current (I_{mpp}):	4,14 A	4,27 A
Open circuit voltage (U_{oc}):	55,4 V	55,8 V
Short circuit current (I_{sc}):	4,36 A	4,44 A

ELECTRICAL DATA (general)

Cell temperature (T_{NOCT}): 46 °C

Module efficiency: 14,7% 15,3

Tolerance of performance: -0W to +10W

- 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:	96 (125 x 125 mm) monocrystalline silicon solar cells per module; 4 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 ; 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:	1596 mm
Width:	1065 mm
Thickness:	46 mm
Weight:	20,5 kg

CERTIFICATES/STANDARDS

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