

SUN EARTH®

PV-MODULE 230 WP

POLY-CRYSTALLINE TPB 156*156-60-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



35AY
LISTED
PHOTOVOLTAGIC MODULE



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Sun Earth®

by



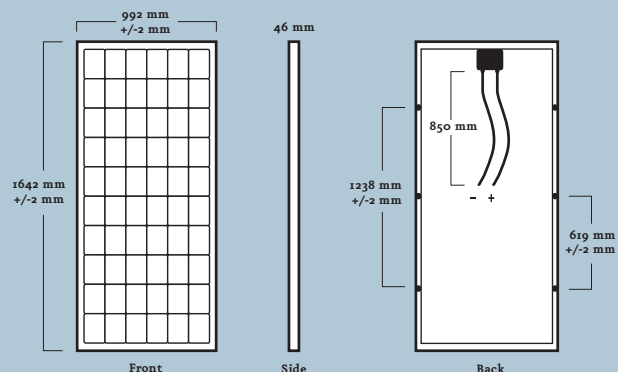
TECHNICAL DATA

ELECTRICAL CHARACTERISTICS

Maximum Power (P_{mpp}):	230 Watt
Power Tolerance (ΔP_{mpp}):	+3/-3 %
Maximum Power Voltage (U_{mpp}):	29,9 Volt
Maximum Power Current (I_{mpp}):	7,7 Ampere
Open circuit Current (U_{oc}):	36,9 Volt
Short circuit Current (I_{sc}):	8,2 Ampere
Max. System Voltage (class II):	750 VDC
Max. System Voltage (IEC61215):	1000 VDC
Module Efficiency:	14,1 %
Temp. Coefficient Voc:	-0,35 ± 0,02 % / °C
Temp. Coefficient Current:	+0,025 ± 0,015 % / °C
Temp. Coefficient Power:	-0,4 ± 0,05 % / °C
NOCT:	47 ± 2 °C
Number of Cells:	60
Size of Cells:	156 x 156 mm

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DIMENSIONS



MECHANICAL CHARACTERISTICS

Weight:	20 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

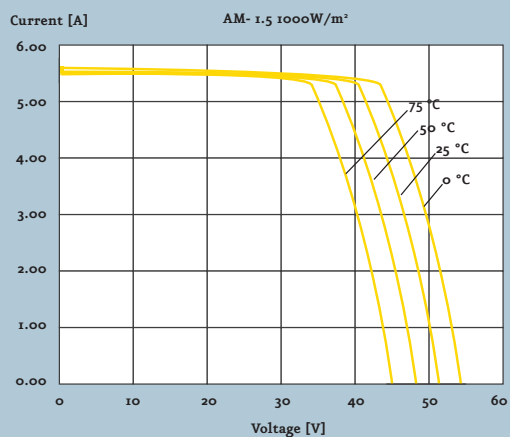
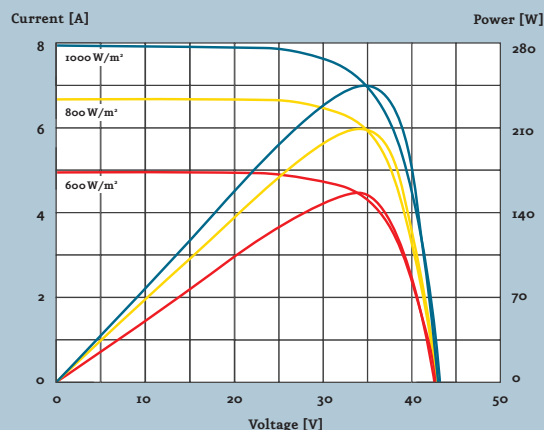
Operating Temperature:	-40°C ~ +90°C
Storage Temperature:	-40°C ~ +90°C
Maximum Hail diameter:	25 mm at 80 Km/h

¹ highly transparent, anti-reflective, self-cleaning solar-safety-glass manufactured by Saint Gobain®

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 / m²
TC:	25 °C

TRANSPORT INFORMATION

Packing configuration:	40 pcs per carton
Size of Carton:	1680 x 1030 x 2070 mm
Weight of Carton:	810 kg
Cartons per 40" Container:	14