

THE ANTARIS M6-SERIES



- ANTARIS modules are manufactured from high-quality components for worldwide use in grid-connected systems.
- Continuous quality controls throughout the entire production process
- Production using state-of-art quality assurance technology
- Quality assurance by an external, independent testing institute based in Germany

On the AS M6 series, we grant a 30-year performance guarantee and a 12-year product guarantee.



Also available
IN BLACK

AS M6 SERIES



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LIVING BY THE SUN!

ELECTRICAL PROPERTIES (STC*)

ANTARIS SOLAR AS M6 series	M6 250	M6 255	M6 260
Rated output (P _{max}) [Wp]	250	255	260
Voltage with P _{max} (V _{mpp}) [V]	30.1	30.2	30.4
Current with P _{max} (I _{mpp}) [A]	8.32	8.44	8.55
Open circuit voltage (V _{oc}) [V]	37.5	37.6	37.7
Short circuit current (I _{sc}) [A]	8.87	8.99	9.1
Output tolerance to rated output	+ 5 W		
Max. reverse current (I _r) [A]	15		
Max. system voltage [V]	IEC 1000		
Degree of module effectiveness [%]	15.4	15.7	16.0
Application category	(as per IEC 61730) A		
Fire category	(as per IEC 61730) C(UL)		
Protection rating	(as per IEC 61730) II		

STC * (Standard test conditions): Irradiation 1000 W/m², module temperature 25°C, air mass 1.5

ELECTRIC OUTPUT WITH NOCT

ANTARIS SOLAR AS M6 series	M6 250	M6 255	M6 260
Rated output (P _{max}) [Wp]	184	188	191
Voltage with P _{max} (V _{mpp}) [V]	28.0	28.4	28.7
Current with P _{max} (I _{mpp}) [A]	6.57	6.62	6.66
Open circuit voltage (V _{oc}) [V]	37.5	37.6	37.7
Short circuit current (I _{sc}) [A]	7.15	7.21	7.28

NOCT: Irradiation 800 W/m², air 20°C, module temperature 45 +/- 2°C, air mass 1.5

TEMPERATURE PROPERTIES

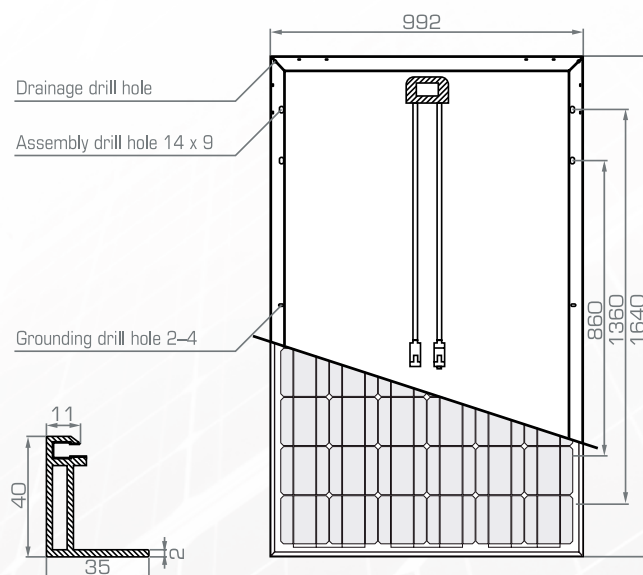
NOCT**	45 +/- 2°C
Temperature coefficient P _{max}	-0.43 %/K
Temperature coefficient V _{oc}	-0.31 %/K
Temperature coefficient I _{sc}	0.03 %/K
Operating temperature	from -40 to +85°C

NOCT**: Nominal cell operating temperature sun 800 W/m², air 20°C, wind speed 1m/s

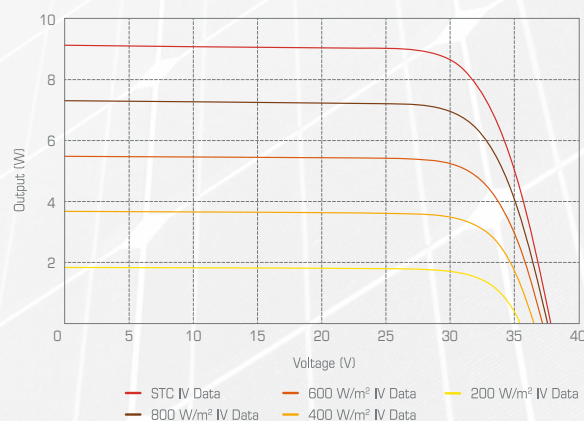
MECHANICAL PROPERTIES

Solar cells	60 (6x10) monocrystalline silicon solar cells, 156 x 156 mm
Front surface	3.2 mm thick, low-iron solar glass
Rear side cover	Film compound (EVA/TPT)
Frame	Anodised aluminium
Diodes	6 bypass diodes
Junction box	Protection degree IP65
Plug-in connector	MC4 compatible
Cables	Length: 1000 mm / profile: 4 mm ²
Dimensions	1640 x 992 x 40 mm 64.6 x 39.1 x 1.57 inches
Weight	19 kg / 41.6 lbs
Snow load	5400 Pa
Wind load	200 kg/m ² (60 m/s)
Hail test	227 g steel balls from 1 m height
Performance guarantee	10 years at 90 %, 30 years at 80 % of the min. rated output

SCHEMATIC DIAGRAMM



CURRENT-VOLTAGE CHARACTERISTIC CURVE



EFFICIENCY AT VARIED IRRADIATION

Irradiance [W/m ²]	200	400	600	800	1000
Efficiency [%]	15.9	16.2	16.2	16.1	16.0

The typical change in the degree of module effectiveness with an irradiation of 200 W/m² instead of 1000 W/m² (both at 25°C and spectrum AM 1.5) < 3%