





## 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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Member of:



Deutsche Gesellschaft für Sonnenenergie e.V.  
International Solar Energy Society, German Section

**LIVING BY THE SUN!**

### ELECTRICAL PROPERTIES (STC\*)

ANTARIS SOLAR AS M6 series	M6 240	M6 245	M6 250
Rated output (P <sub>max</sub> ) [Wp]	240	245	250
Voltage with P <sub>max</sub> (V <sub>mpp</sub> ) [V]	30.23	30.59	30.94
Current with P <sub>max</sub> (I <sub>mpp</sub> ) [A]	7.94	8.01	8.08
Open circuit voltage (V <sub>oc</sub> ) [V]	37.47	37.67	37.88
Short circuit current (I <sub>sc</sub> ) [A]	8.53	8.60	8.67
Output tolerance to rated output	+ / - 3%		
Max. reverse current (I <sub>r</sub> ) [A]	15		
Max. system voltage [V]	IEC 1000		
Degree of module effectiveness [%]	14.8	15.1	15.4
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/m<sup>2</sup>, module temperature 25°C, air mass 1.5

### ELECTRIC OUTPUT WITH NOCT

ANTARIS SOLAR AS M6 series	M6 240	M6 245	M6 250
Rated output (P <sub>max</sub> ) [Wp]	177.9	181.3	184.7
Voltage with P <sub>max</sub> (V <sub>mpp</sub> ) [V]	27.5	27.7	28.0
Current with P <sub>max</sub> (I <sub>mpp</sub> ) [A]	6.48	6.54	6.59
Open circuit voltage (V <sub>oc</sub> ) [V]	34.5	34.6	34.8
Short circuit current (I <sub>sc</sub> ) [A]	6.91	6.96	7.02

NOCT: Irradiation 800 W/m<sup>2</sup>, air 20°C, module temperature 45 +/- 2°C, air mass 1.5

### TEMPERATURE PROPERTIES

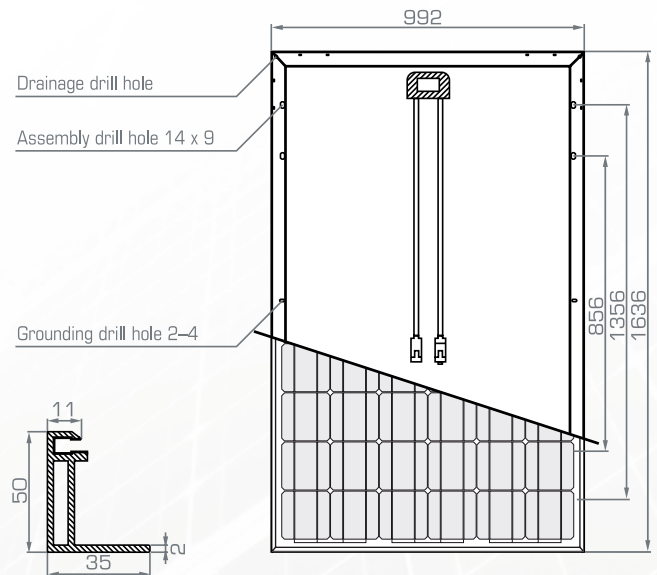
NOCT**	45 +/- 2°C
Temperature coefficient P <sub>max</sub>	-0.42 %/K
Temperature coefficient V <sub>oc</sub>	-0.30 %/K
Temperature coefficient I <sub>sc</sub>	0.06 %/K
Operating temperature	from -40 to +85°C

NOCT\*\*: Nominal cell operating temperature sun 800 W/m<sup>2</sup>, air 20°C, wind speed 1m/s

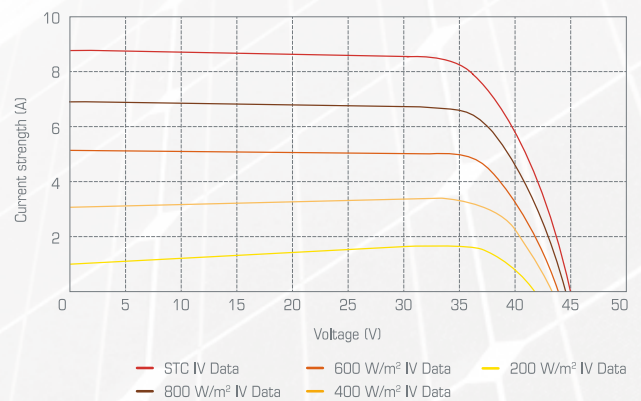
### MECHANICAL PROPERTIES

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: 900 mm / profile: 4 mm <sup>2</sup>
Dimensions	1636 x 992 x 50 mm 64.41 x 39.1 x 1.97 inches
Weight	19.3 kg / 42.3 lbs
Snow load	5400 Pa
Wind load	200 kg/m <sup>2</sup> (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

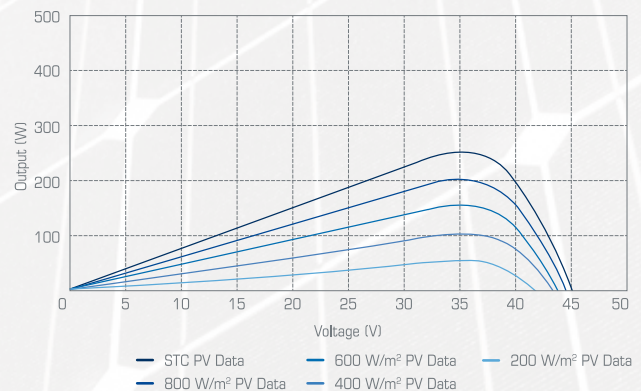
### SCHEMA AS M SERIES



### CURRENT-VOLTAGE CHARACTERISTIC CURVE



### OUTPUT-VOLTAGE CHARACTERISTIC CURVE



The typical change in the degree of module effectiveness with an irradiation of 200 W/m<sup>2</sup> instead of 1000 W/m<sup>2</sup> (both at 25°C and spectrum AM 1.5) < 3%