ANTARIS SOLAR Germany

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

TÜV TEST 2012 AMMONIAC SAFE · HIGH resistance to snow load · CO2 · CE · PV RECYCLE · TÜVRheinland CERTIFIED · MCS · PI CON · TÜV ECO LABEL · 30 years performance warranty · 12 years PRODUCT WARRANTY

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LIVING BY THE SUN!

ELECTRICAL PROPERTIES (STC*)

ANTARIS SOLAR AS M6 series		M6 300	M6 305	M6 310
Rated output (Pmax)	[Wp]	300	305	310
Voltage with Pmax (Vmpp)	[V]	36,3	36,4	36,5
Current with Pmax (Impp)	[A]	8,27	8,38	8,49
Open circuit voltage (Voc)	[V]	45,7	45,9	46,1
Short circuit current (Isc)	[A]	8,63	8,71	8,79
Output tolerance to rated output			0 - 5 W	
Max. reverse current (I_R)	[A]		15	
Max. system voltage	[V]		IEC 1000	
Degree of module effectiveness	[%]	15,5	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 300	M6 305	M6 310
Rated output (Pmax)	[Wp]	227,1	230,9	234,6
Voltage with Pmax (Vmpp)	[V]	32,5	32,6	32,7
Current with Pmax (Impp)	[A]	6,99	7,08	7,17
Open circuit voltage (Voc)	[V]	41,7	41,9	42,1
Short circuit current (Isc)	[A]	7,34	7,41	7,48

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

TEMPERATURE PROPERTIES

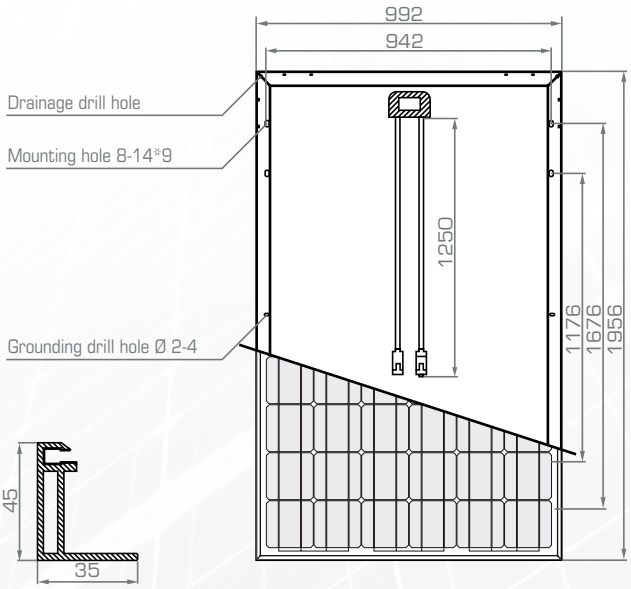
NOCT**	45 +/– 2°C
Temperature coefficient Pmax	–0.445 %/ °C
Temperature coefficient Voc	–0.334 %/ °C
Temperature coefficient Isc	0.05 %/ °C
Operating temperature	from -40 to +85°C

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

MECHANICAL PROPERTIES

Solar cells	72 (6x12) 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: 1250 mm / profile: 4 mm²
Dimensions	1956 x 992 x 45 mm 77 x 39.1 x 1.77 inches
Weight	24 kg / 52,91 lbs
Snow load	5400 Pa
Wind load	200 kg/m² (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

