

THE AS M "PREMIUM" SERIES FROM ANTARIS SOLAR



The monocrystalline high-performance modules in the AS M "Premium" series are suitable for roof-mounted and roof-integrated installation for all types of roofs. In a 2010 comparison test, the AS M series module was awarded the best result of 1.1 for achieving the highest energy yield per individual module $^{\ast}.$ The test, carried out by the TEC Institute under real conditions, compared modules from a series of reputable manufacturers. Impressively, the rated output tolerance to rated output of our Premium range is +3%.

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







Also available IN BLACK



















* Test results from the TEC Institute

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ELECTRICAL PROPERTIES (STC*)					
ANTARIS SOLAR AS M series		M 200	M 205	M 210	
Rated output (Pmax)	[Wp]	200	205	210	
Voltage with Pmax (Vmpp)	[V]	36.9	37.1	37.3	
Current with Pmax (Impp)	[A]	5.43	5.53	5.64	
Open circuit voltage (Voc)	[V]	45.2	45.4	45.6	
Short circuit current (Isc)	[A]	5.72	5.81	5.90	
Output tolerance to rated output		-0% / +3%			
Max. reverse current (I _R)	[A]		10		
Max. system voltage	[V]		IEC 1000		
Degree of module effectiveness	[%]	15.67	16.06	16.45	
Application category		(as	per IEC 6173	O) A	
Fire category		(as per IEC 61730) C(UL)			
Protection rating		(as per IEC 61730) II			

STC * (Standard test conditions): Irradiation 1000 W/m^2 , module temperature 25°C, air mass 1.5

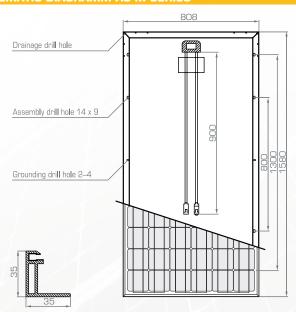
ELECTRIC OUTPUT WITH NOCT					
ANTARIS SOLAR AS M series		M 200	M 205	M 210	
Rated output (Pmax)	[Wp]	146	150	153	
Voltage with Pmax (Vmpp)	[V]	33.6	33.8	33.9	
Current with Pmax (Impp)	[A]	4.35	4.44	4.52	
Open circuit voltage (Voc)	[V]	41.6	41.8	42	
Short circuit current (Isc)	[A]	4.63	4.71	4.78	

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

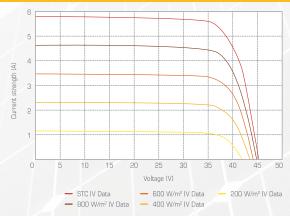
TEMPERATURE PROPERTIES				
NOCT**	45 +/- 2°C			
Temperature coefficient Pmax	-0.43 %/°C			
Temperature coefficient Voc	-0.33 %/°C			
Temperature coefficient Isc	0.056 %/°C			
Operating temperature	from -40 to +85°C			
NOCT**: Nominal cell operating temperature sun 800 W/m², air 20°C, wind speed 1m/s				

MECHANICAL PROPERTIES			
Solar cells	72 (6x12) monocrystalline silicon		
	solar cells, 125 x 125 mm		
Front surface	3.2 mm thick, low-iron solar glass		
Rear side cover	Film compound (EVA/TPT)		
Frame	Anodised aluminium		
Diodes	3 bypass diodes		
Junction box	Protection degree IP65		
Plug-in connector	MC4 compatible		
Cables	Length: 900 mm / profile: 4 mm ²		
Dimensions	1580 x 808 x 35 mm		
	62.2 x 31.8 x 1.38 inches		
Weight	15.5 kg / 34.17 lbs		
Snow load	2400 Pa (as per test at		
	PI-Institut-Berlin: >5400 Pa)		
Wind load	60 m/s (200 kg/m²)		
Hail test	227 g steel balls from 1 m height		
Product guarantee	12 years		
Performance guarantee	10 years at 90 %, 30 years at 80 %		
	of the min. rated output		

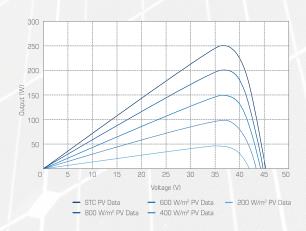
SCHEMATIC DIAGRAMM AS M SERIES



CURRENT-VOLTAGE CHARACTERISTIC CURVE



OUTPUT-VOLTAGE CHARACTERISTIC CURVE



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

Last updated: June 2014 DB-Ms-ENG/0614