

## THE ANTARIS P72 SERIES

- Using high-quality components, ANTARIS modules are manufactured from high-quality components for use worldwide in photovoltaic systems.
- Continuous quality controls throughout the entire production process
- Production with the latest technology for quality assurance
- Quality assurance provided by external, independent testing institutes in Germany

**We have granted the ANTARIS P72 SERIES a 30-year performance guarantee and a 12-year product guarantee**



Also available in  
**BLACK**

**AS P72 SERIES**



**ANTARIS SOLAR GmbH & Co. KG**  
Head office  
63735 Aschaffenburg, Germany

Phone: +49 (0) 6095 950-441  
Fax: +49 (0) 6095 950-544  
Email: [info@antaris-solar.com](mailto:info@antaris-solar.com)  
Internet: [www.antaris-solar.com](http://www.antaris-solar.com)

**LIVING BY THE SUN!**

### ELECTRICAL PROPERTIES (STC\*)

ANTARIS SOLAR AS P72 series	P72 320	P72 325	P72 335
Rated output (P <sub>max</sub> ) [Wp]	320	325	335
Voltage with P <sub>max</sub> (V <sub>mpp</sub> ) [V]	37.1	37.2	37.4
Current with P <sub>max</sub> (I <sub>mpp</sub> ) [A]	8.63	8.74	8.96
Open circuit voltage (V <sub>oc</sub> ) [V]	45.7	45.8	46.0
Short circuit current (I <sub>sc</sub> ) [A]	9.04	9.15	9.38
Output tolerance to rated output	0-5 W		
Max. reverse current (I <sub>r</sub> ) [A]	15		
Max. system voltage [V]	IEC 1000		
Degree of module effectiveness [%]	16.49	16.75	17.26
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 P72 series	P72 320	P72 325	P72 335
Rated output (P <sub>max</sub> ) [Wp]	236.0	239.0	247.0
Voltage with P <sub>max</sub> (V <sub>mpp</sub> ) [V]	33.8	33.9	34.1
Current with P <sub>max</sub> (I <sub>mpp</sub> ) [A]	6.98	7.05	7.25
Open circuit voltage (V <sub>oc</sub> ) [V]	42.1	42.2	42.4
Short circuit current (I <sub>sc</sub> ) [A]	7.32	7.41	7.60

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>	-0.41 %/°C
Temperature coefficient V <sub>oc</sub>	-0.31 %/°C
Temperature coefficient I <sub>sc</sub>	0.05 %/°C
Operating temperature	from -40 to +85°C

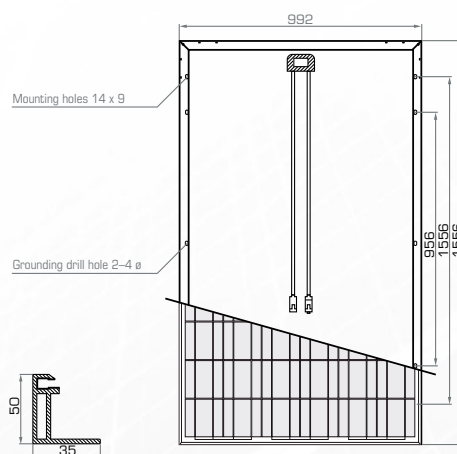
NOCT\*\*: Nominal cell operating temperature sun 800 W/m<sup>2</sup>, air 20°C, wind speed 1m/s

### MECHANICAL PROPERTIES

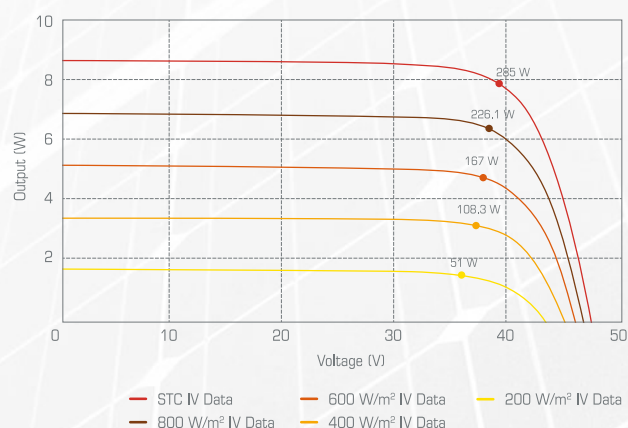
Solar cells	72 (6x12) polycrystalline silicon solar cells, 156 x 156 mm
Front surface	3.2 mm thick, tempered, coated glass
Rear side cover	Film compound (EVA/TPT)
Frame	Anodised aluminium
Diodes	3 bypass diodes
Junction box	Protection degree IP67
Plug-in connector	MC4 compatible
Cables	Length: 1000 mm / profile: 4 mm <sup>2</sup>
Dimensions	1956 x 992 x 50 mm 77.01 x 39.06 x 1.97 inches
Weight	23 kg / 50.7 lbs
Snow load	≥ 5400 Pa
Wind load	60 m/s (200 kg/m <sup>2</sup> )
Hail test	227 g steel balls from 1 m height
Performance guarantee	Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

Last updated: Sept 2017

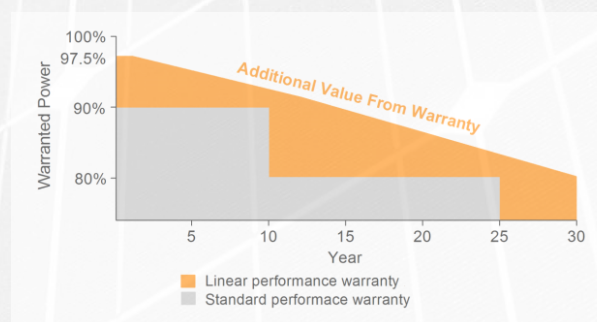
### SCHEMA AS P72 SERIES



### CURRENT-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%



DB-P72-ENG/0515