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**Solar Panel Guide
Specification Data Sheet**

Antaris Solar GmbH & Co. KG

P72 Series

P72 330

Also available on the web at
EnergyPal.com/antaris-solar-gmbh-co-kg-solar-panels/p72-330

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



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LIVING BY THE SUN!

ELECTRICAL PROPERTIES (STC *)

ANTARIS SOLAR AS P72 series		P72 320	P72 325	P72 335
Rated output (P _{max})	[Wp]	320	325	335
Voltage with P _{max} (V _{mpp})	[V]	37.1	37.2	37.4
Current with P _{max} (I _{mpp})	[A]	8.63	8.74	8.96
Open circuit voltage (V _{oc})	[V]	45.7	45.8	46.0
Short circuit current (I _{sc})	[A]	9.04	9.15	9.38
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 [%]		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/m², 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 _{max})	[Wp]	236.0	239.0	247.0
Voltage with P _{max} (V _{mpp})	[V]	33.8	33.9	34.1
Current with P _{max} (I _{mpp})	[A]	6.98	7.05	7.25
Open circuit voltage (V _{oc})	[V]	42.1	42.2	42.4
Short circuit current (I _{sc})	[A]	7.32	7.41	7.60

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}	-0.41 %/°C
Temperature coefficient V _{oc}	-0.31 %/°C
Temperature coefficient I _{sc}	0.05 %/°C
Operating temperature	from -40 to +85°C

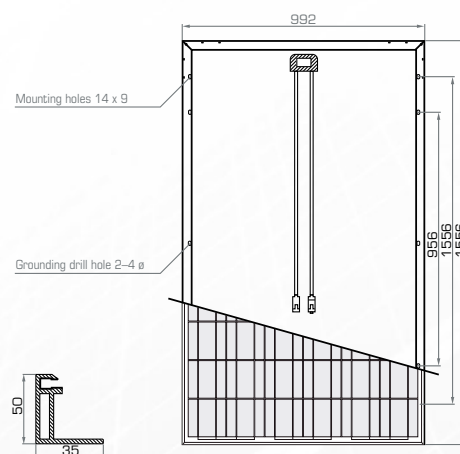
NOCT**: Nominal cell operating temperature sun 800 W/m², air 20°C, wind speed 1m/s

MECHANICAL PROPERTIES

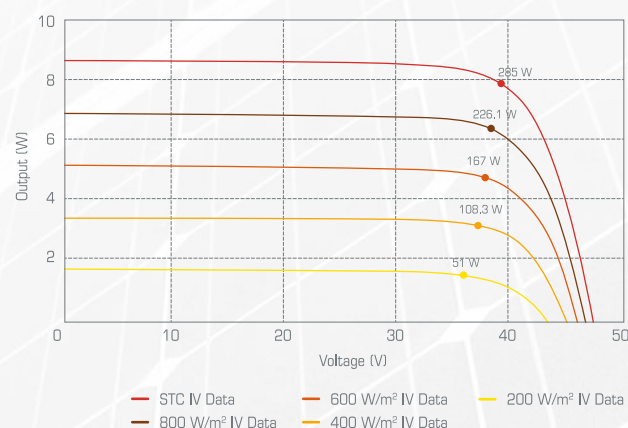
Solar cells	72 (6x12) polycrystalline silicon solar cells, 156 x 156 mm
Front surface	3.2 mm thick, tempered, coated glass
Rear side cover	Film compound (EVA/TPT)
Frame	Anodised aluminium
Diodes	3 bypass diodes
Junction box	Protection degree IP67
Plug-in connector	MC4 compatible
Cables	Length: 1000 mm / profile: 4 mm ²
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 ²)
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

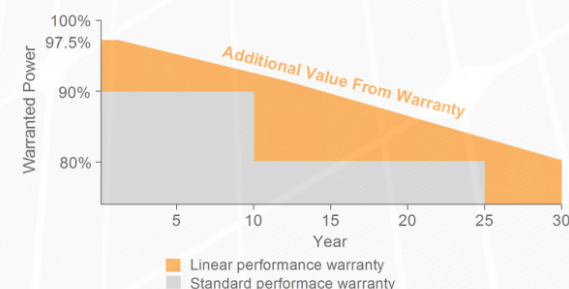
SCHEMA AS P72 SERIES



CURRENT-VOLTAGE CHARACTERISTIC CURVE



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



DB-P72-ENG/0515