

Photovoltaic Modules AP 72

72 cells – multicrystalline silicon

Wp: 255 – 260 – 265 – 270 – 275 – 280 – 285 – 290

Output power always exceeds nominal value. Power tolerance: -0/+3%



+ 10% Feed In Tariff

Characteristics & Performances

- **Product and service Made in Italy** 
- **Quality and Robustness**
 - High Quality raw materials
 - Quality control on 100% of modules
 - High transparency, 4 mm glass
 - Anodized aluminum 45 mm profile
- **Resistance to critical environment**
 - Static load test at 540 kg/m²
 - Ideal for seaside and marine areas, rural environment, livestock farming
- **High producibility**
 - Output power only positive
 - Current/power range strictly classified to reduce mismatching losses

Product Warranty

- 10 years product warranty *

Performance Warranty

- 12 years warranty at 90% of the nominal power *
- 25 years warranty at 80% of the nominal power *

* If properly installed and used according to the available instructions for storing, mounting, usage and maintenance

Quality, Environment, Health & Safety

- **Quality System**
UNI EN ISO 9001:2008
Certification no. 15852 – CERTIQUALITY
- **Environmental Management System**
UNI EN ISO 14001:2004
Certification no. 17234 – CERTIQUALITY
- **Occupational Health & Safety Management System**
OHSAS 18001:2007
Certification no. 17235 – CERTIQUALITY
- **Full Member**
PV Cycle Association AISBL



Product Certifications

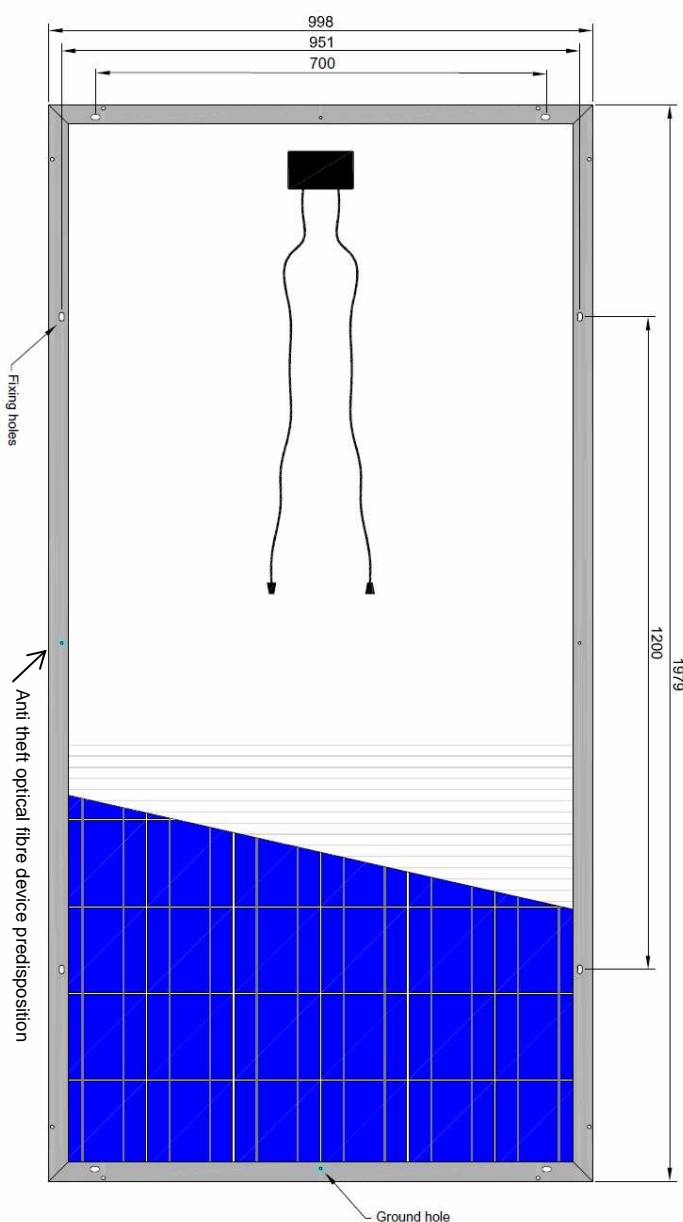
- CE  Safety Class II
- **IEC 61215:2005**
Quality and Robustness
- **IEC 61730-1 / -2**
Safety
- **Manufacturing Inspection**
"Made in Eu" Production in compliance with standards
- Certification no. 11-PPV-0009409-01-W01-TIC
Attestation no. 11-PPI000940901-03-W01-TIC
- **IEC 61701:2000**
Report no. AR11TEST026
Resistance to salt corrosion (salt fog)
- **Ammonia Resistance Test**
Report no. AR11TEST055
Resistance to ammonia fumes



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Performance in standard conditions (STC): 1000 W/m²; Temperature 25°C; AM 1.5

Model		AP 72-255	AP 72-260	AP 72-265	AP 72-270	AP 72-275	AP 72-280	AP 72-285	AP 72-290
Maximum Power	P _{max} (W)	255	260	265	270	275	280	285	290
Power tolerance	W	- 0 / + 5							
Maximum Power Tension	V _{mpp} (V)	34.26	34.41	34.55	34.76	34.89	35.00	35.15	35.26
Maximum Power Current	I _{mpp} (A)	7.52	7.63	7.74	7.84	7.95	8.07	8.14	8.22
Open Circuit Tension	V _{oc} (V)	44.07	44.27	44.46	44.73	44.89	45.04	45.22	45.36
Short Circuit Current	I _{sc} (A)	8.10	8.22	8.34	8.45	8.57	8.70	8.77	8.86
Fill Factor	%	72.17	72.15	72.12	72.10	72.10	72.08	72.15	72.12
Cell Efficiency	%	14.60	15.00	15.20	15.60	15.80	16.00	16.40	16.60
Module efficiency	%	13.0	13.3	13.5	13.8	14.1	14.3	14.5	14.7
Maximum voltage	(V _{DC})	1000							
NOCT	(°C)	45+ / - 2							
I _{sc} temperature coefficient (α)	%/°C	0.07							
V _{oc} temperature coefficient (β)	%/°C	-0.31							
P _{max} temperature coefficient (γ)	%/°C	-0.40							



Design

Front Cells Encapsulant Back Profile Junction box Wires	High transparency 4 mm tempered glass 72 cells - Multicristallin silicon - 156 x 156 mm EVA (Etylene - Vinyl Acetate co/polymer) Polymeric laminate Anodized Aluminium - 6060 - Anticorodal IP 65 (IEC 60529) - Class II (DIN VDE0106) - 3 by-pass diodes 2 unipolar, 4 mm ² wires - rapid clutch - 1 m lenght
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Dimensions

Lenght	(mm)	1979
Width	(mm)	998
Profile thickness	(mm)	45
Weight	(kg)	26
Front glass thickness	(mm)	4

Holes

Mounting slots	8 slots (9 mm x 16 mm) at a distance of: 1200 mm - centered on the long side 700 mm - centered on the short side
Ground Hole	1 hole (5 mm) with identification label
Drain Holes	2 drain holes (7 mm) on each side 100 mm from corner

Made in Italy 

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