



Inspiring green-energy since 2003

PERC Technology

AE SMART HOT-SPOT FREE MONOCRYSTALLINE PV MODULES AE M6-72 Series 370W-385W

tested by  **Fraunhofer**
CSP

72

CELLS



SHADING
RESISTANT



HOT SPOT
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

TEMPERATURE
Hot spot temperature lower than 85°C
The IEC61215 test shows that with a zero percentage, a small and a 100 percentage of shaded area, respectively hot spots will not exceed 85°C, which is the maximum operating condition.

SAFETY
Instantly reduced temperature, thus eliminating material hazard and ensuring more safety of the module, preventing fire risks caused by hot spots.

GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

PERFORMANCE GUARANTEE
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.

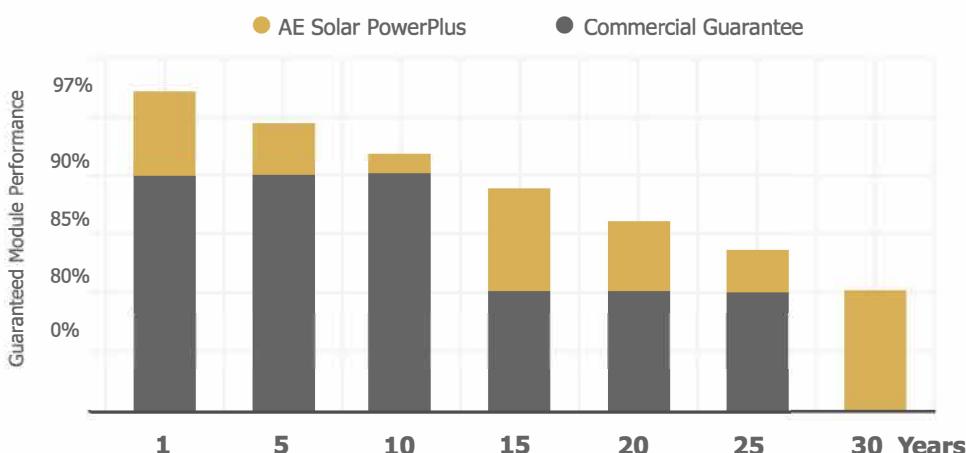
RELIABILITY
Bypass diodes prevent cells mismatching at shaded areas. The lower temperature of hot-spot free modules will eliminate potential cause for back sheet degradation, hence enhancing reliability for longer term.

HIGH RETURNS
This new technology prevents instant falls in the module output, thus increasing the performance ratio up to 30% and return for all types of installations.

PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

CERTIFICATES
Lining with international standards, AE Solar Photovoltaic modules are tested and certified under extreme stress conditions and it can bear harsh environment influences.

OUR PERFORMANCE GUARANTEE



30
years
Performance
Guarantee

12
years
Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6-72 Series 370W-385W

SPECIFICATIONS

| | | AE370M6-72 | AE375M6-72 | AE380M6-72 | AE385M6-72 |
|--|-----------------------|------------|------------|------------|------------|
| Nominal Max. Power | P _{max} (Wp) | 370 | 375 | 380 | 385 |
| Maximum power voltage | V _{mp} (V) | 39.63 | 39.66 | 39.71 | 39.73 |
| Maximum power current | I _{mp} (A) | 9.34 | 9.46 | 9.57 | 9.69 |
| Open-circuit voltage | V _{oc} (V) | 47.48 | 47.53 | 47.59 | 47.81 |
| Short-circuit current | I _{sc} (A) | 9.69 | 9.75 | 9.82 | 9.95 |
| Module efficiency | (%) | 18.65 | 18.90 | 19.15 | 19.41 |
| Power tolerance | P _{max} (Wp) | 0 / + 5 | | | |
| Maximum system voltage DC | (V) | 1000 | | | |
| Maximum series fuse rating | (A) | 15 | | | |
| Operating temperature | (°C) | -40 to +85 | | | |
| Temp. coefficients of P _{max} | (%/°C) | -0.38 | | | |
| Temp. coefficients of V _{oc} | (%/°C) | -0.29 | | | |
| Temp. coefficients of I _{sc} | (%/°C) | 0.05 | | | |
| Nom. Operating cell temp.(NOCT) | (°C) | 45±2 | | | |

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m² with spectrum AM 1.5 and a cell temperature of 25°C.

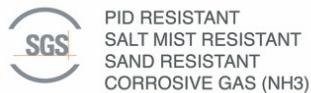
MATERIAL CHARACTERISTICS

| | |
|-----------------|--|
| Cell type | Mono-crystalline 156.75mm × 156.75mm |
| No. of cells | 72 (6 x 12) |
| Dimensions | 2000 x 992 x 40mm |
| Weight | 22 kg |
| Junction box | IP 67 rated |
| Output cable | 1 x 4.0mm ² , 1200mm length or customised |
| Connector type | MC 4 / MC 4 compatible |
| Hail resistance | Max. Ø 28 mm, at 23 m/s |
| Wind load | 2400 Pa / 244 kg/m ² |
| Mechanical load | 5400 Pa / 550 kg/m ² |

PACKAGING INFORMATION

| | |
|-----------------------|------------------------|
| Packing configuration | 56 pcs / double pallet |
| Loading Capacity | 616 pcs / 40HQ |
| Size / pallet (mm) | 2040 x 1120 x 2335 |
| Weight | 1360 kg / pallet |

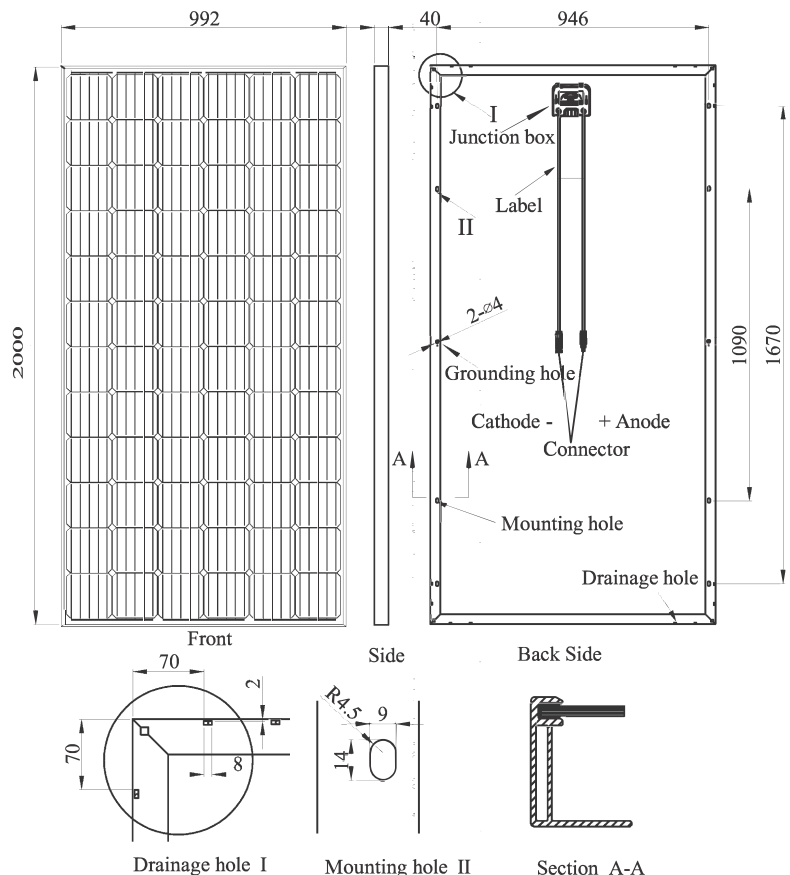
CERTIFICATES



FOR INNOVATIVE
SHADING RESISTANT
MODULES DEVELOPMENT

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DIMENSIONS



AE Solar GmbH

Messerschmittring 54
86343 Königsbrunn
Germany

Tel.: +49 8231 92 92 52 2
Fax: +49 8231 97 82 68 9
Email: sales@ae-solar.com
Web: www.ae-solar.com