



Inspiring green-energy since 2003

PERC Technology

AE SMART HOT-SPOT FREE MONOCRYSTALLINE PV MODULES AE M6-60 Series 305W-320W

tested by  **Fraunhofer**
CSP

60

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.

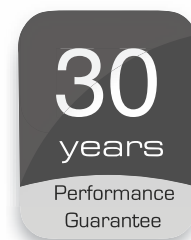
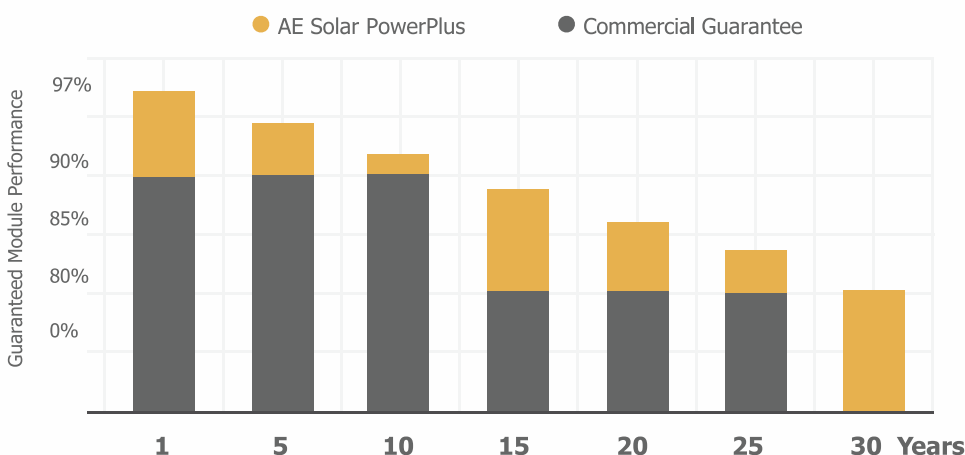
RELIABILITY
Bypass diodes prevent cells mismatching at shaded areas. The lower temperature of hot-spot free modules will eliminate potential cause for back sheet degradation, hence enhancing reliability for longer term.

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



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6-60 Series 305W-320W

SPECIFICATIONS

		AE305M6-60	AE310M6-60	AE315M6-60	AE320M6-60
Nominal Max. Power	Pmax (Wp)	305	310	315	320
Maximum power voltage	Vmp(V)	34.01	34.42	34.84	35.19
Maximum power current	Imp (A)	8.97	9.01	9.04	9.11
Open-circuit voltage	Voc(V)	39.56	39.77	39.98	40.21
Short-circuit current	Isc (A)	9.66	9.71	9.77	9.83
Module efficiency	(%)	18.37	18.67	18.97	19.27
Power tolerance	Pmax (Wp)				0 / + 5
Maximum system voltage DC	(V)				1000
Maximum series fuse rating	(A)				15
Operating temperature	(°C)				-40 to +85
Temp. coefficients of Pmax	(%/°C)				-0.38
Temp. coefficients of Voc	(%/°C)				-0.29
Temp. coefficients of Isc	(%/°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.

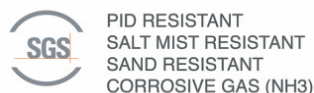
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 156.75mm × 156.75mm
No. of cells	60 (6 × 10)
Dimensions	1674 × 992 × 35mm
Weight	18 kg
Junction box	IP 67 rated
Output cable	1 × 4.0mm ² , 900mm 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	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1710 × 1135 × 2325
Weight	1210 kg / pallet

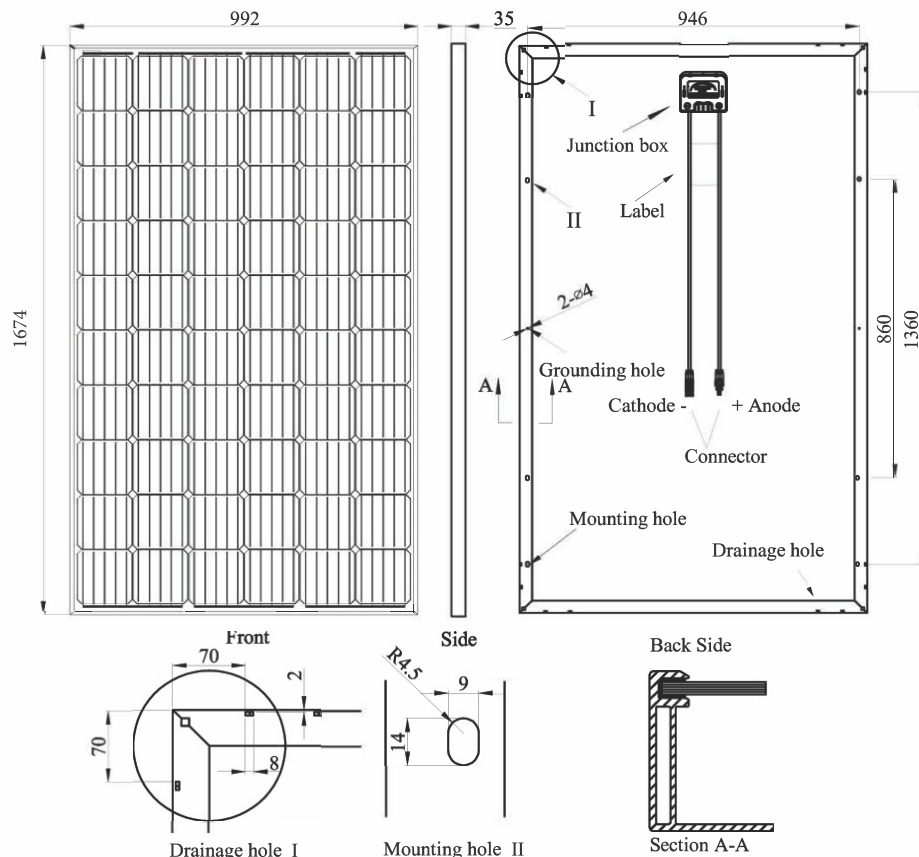
CERTIFICATES



FOR INNOVATIVE SHADING RESISTANT MODULES DEVELOPMENT

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DIMENSIONS



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