

Inspiring green-energy since 2003

AE SMART HOT-SPOT FREE POLYCRYSTALLINE PV MODULES

AE SMP6-60 Series 270W-290W



60 **CELLS**









RESISTANT



SALT CORROSION RESISTANT





AMMONIA HIGHLY STABLE RESISTANT AND TOUGH RESISTANT

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.



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.

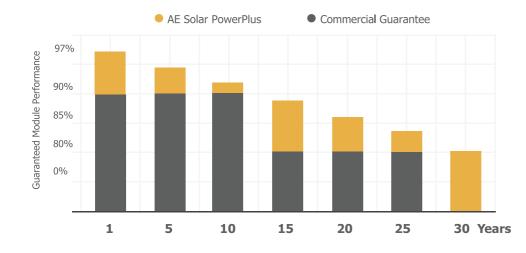
PLUS-SORTING

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











TECHNICAL DATA

AE SMP6-60 Series 270W-290W

SPECIFICATIONS		4 F 2 7 0 C M D C C O	AFAZEGMBG GO	4 F 2 C C C C C C C C C C C C C C C C C C	4 F 2 0 F C 14 D C . C 0	AFRONCHING CO
		AE270SMP6-60	AE275SMP6-60	AE280SMP6-60	AE285SMP6-60	AE290SMP6-60
Nominal Max. Power	Pmax (Wp)	270	275	280	285	290
Maximum power voltage	Vmp(V)	30.82	31.24	31.65	32.07	32.48
Maximum power current	Imp (A)	8.76	8.80	8.85	8.89	8.93
Open-circuit voltage	Voc(V)	38.31	38.52	38.72	38.93	39.14
Short-circuit current	Isc (A)	9.31	9.35	9.38	9.44	9.47
Module efficiency	(%)	16.26	16.56	16.86	17.16	17.46
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)	-0.40				
Temp. coefficients of Voc	(%/°C)	-0.313				
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 Poly-crystalline 156.75mm × 156.75mm

No. of cells 60 (6 x 10)

Dimensions 1674 x 992 x 35mm

Weight 18 kg

Junction box IP 67 rated

Output cable 1 x 4.0mm², 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/m²
Mechanic 5400 Pa / 550 kg/m²

CERTIFICATES







PID RESISTANT SALT MIST RESISTANT SAND RESISTANT CORROSIVE GAS (NH3)











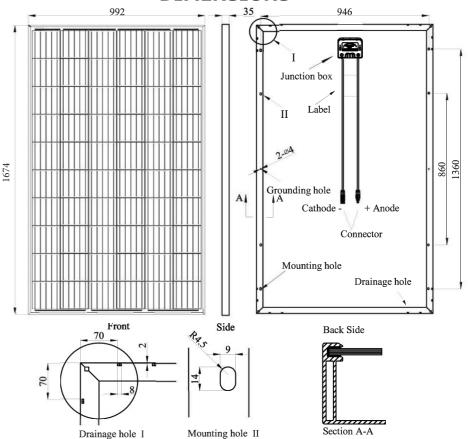
FOR INNOVATIVE SHADING RESISTANT MODULES DEVELOPMENT

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PACKAGING INFORMATION

Packing configuration 64 pcs / double pallet Loading Capacity 896 pcs / 40HQ Size / pallet (mm) 1710 x 1135 x 2325 Weight 1210 kg / pallet

DIMENSIONS



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