



Inspiring green-energy since 2003

## PERC Technology

# AE SMART HOT-SPOT FREE MONOCRYSTALLINE PV MODULES AE SMM6-72 Series 370W-385W

tested by  **Fraunhofer**  
CSP

<b>72</b> CELLS	 SHADING RESISTANT	 HOT SPOT RESISTANT	 PID RESISTANT	 SALT CORROSION RESISTANT	 SAND RESISTANT	 AMMONIA RESISTANT	 HIGHLY STABLE AND TOUGH
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**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.

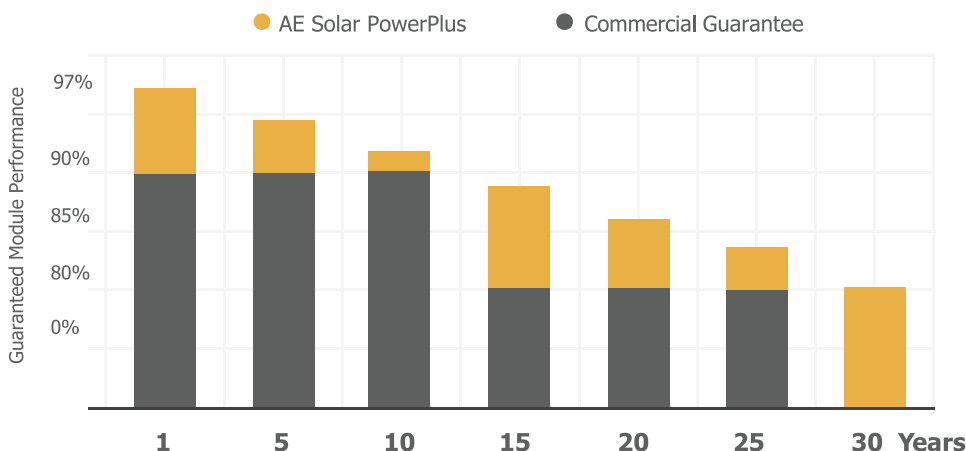
**RELIABILITY**  
Bypass diodes prevent cells mismatching at shaded areas. The lower temperature of hot-spot free modules will eliminate potential cause for back sheet degradation, hence enhancing reliability for longer term.

**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 SMM6-72 Series 370W-385W

### SPECIFICATIONS

		AE370SMM6-72	AE375SMM6-72	AE380SMM6-72	AE385SMM6-72
Nominal Max. Power	P <sub>max</sub> (Wp)	370	375	380	385
Maximum power voltage	V <sub>mp</sub> (V)	39.63	39.66	39.71	39.73
Maximum power current	I <sub>mp</sub> (A)	9.34	9.46	9.57	9.69
Open-circuit voltage	V <sub>oc</sub> (V)	47.48	47.53	47.59	47.81
Short-circuit current	I <sub>sc</sub> (A)	9.69	9.75	9.82	9.95
Module efficiency	(%)	18.65	18.90	19.15	19.41
Power tolerance	P <sub>max</sub> (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 <sub>max</sub>	(%/°C)	-0.38			
Temp. coefficients of V <sub>oc</sub>	(%/°C)	-0.29			
Temp. coefficients of I <sub>sc</sub>	(%/°C)	0.05			
Nom. Operating cell temp.(NOCT)	(°C)	45±2			

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> 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 <sup>2</sup> , 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 <sup>2</sup>
Mechanical load	5400 Pa / 550 kg/m <sup>2</sup>

### 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

AES-DSH2019 V.002  
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### DIMENSIONS

