



Inspiring green-energy since 2003



## AE SMART HOT-SPOT FREE MONOCRYSTALLINE PV MODULES AE HM6-72 Series 385W-400W

72  
CELLS

  
PID  
RESISTANT

  
SALT CORROSION  
RESISTANT

  
SAND  
RESISTANT

$\frac{NH_3}{S}$   
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.

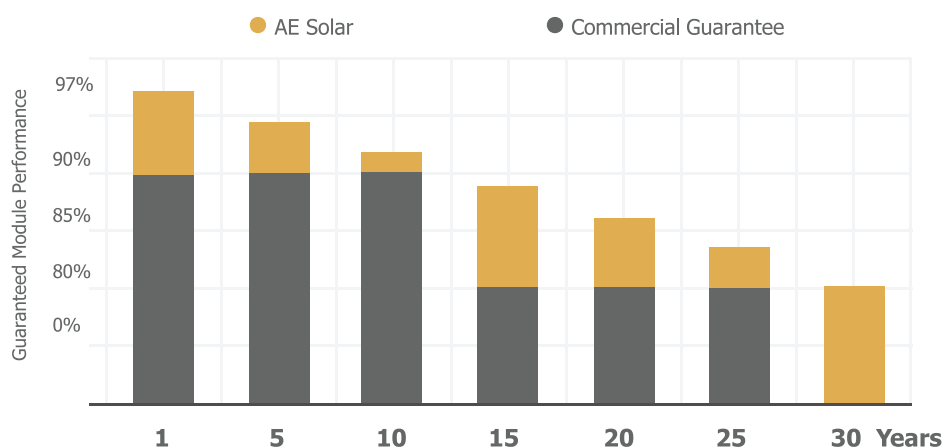
### PLUS-SORTING

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 HM6-72 Series 385W-400W

## SPECIFICATIONS

		AE385HM6-72	AE390HM6-72	AE395HM6-72	AE400HM6-72
Nominal Max. Power	P <sub>max</sub> (Wp)	385	390	395	400
Maximum power voltage	V <sub>mp</sub> (V)	40.80	41.10	41.40	41.71
Maximum power current	I <sub>mp</sub> (A)	9.44	9.49	9.54	9.59
Open-circuit voltage	V <sub>oc</sub> (V)	49.10	49.30	49.48	49.69
Short-circuit current	I <sub>sc</sub> (A)	9.92	10.12	10.50	10.59
Module efficiency	(%)	19.14	19.38	19.63	19.88
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)	-0.37			
Temp. coefficients of V <sub>oc</sub>	(%/°C)	-0.28			
Temp. coefficients of I <sub>sc</sub>	(%/°C)	0.048			
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.

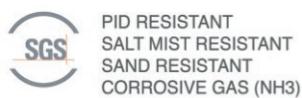
## MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	72 (6 x 12)
Dimensions	2020 X 996 X 35 mm
Weight	21.5 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. Ø25 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>

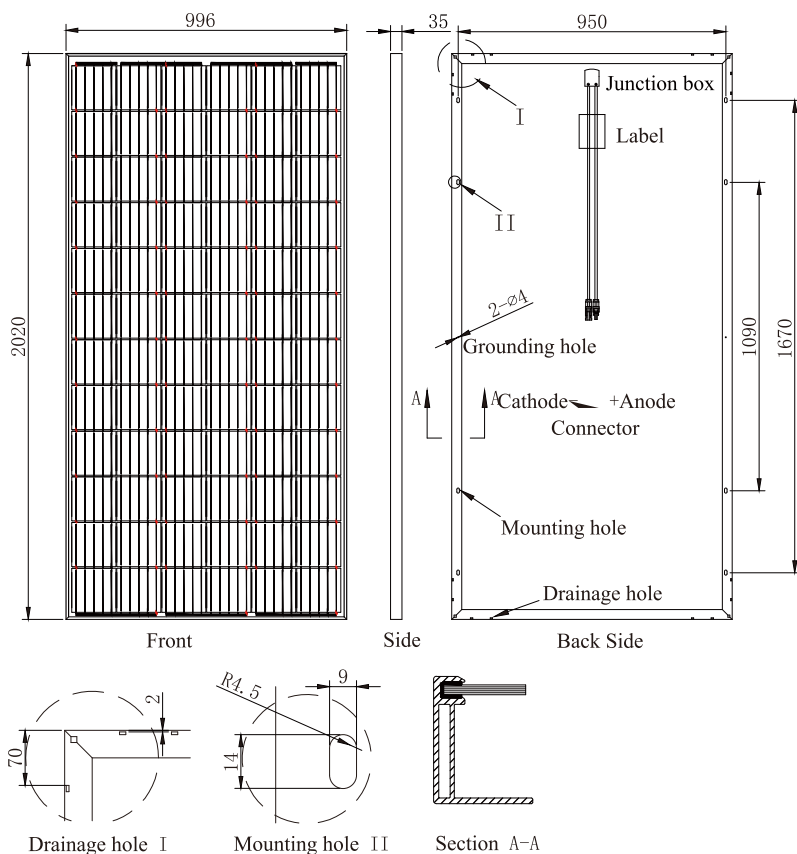
## PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2050x1120x2395mm
Weight	1495 kg / double pallet

## CERTIFICATES



## DIMENSIONS



AES-DSH2019 V.002  
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