

Inspiring green-energy since 2003



## AE DOUBLE GLASS LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6-72 Series 380W-400W THE LIGHTWEIGHT TECHNOLOGY

72

CELLS



MICRO-CRACK  
FREE



FIRE CLASS  
A



PID



SALT CORROSION  
RESISTANT



SAND  
RESISTANT



AMMONIA  
RESISTANT



HIGHLY STABLE  
AND TOUGH

### ✓ GERMAN QUALITY

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

### \$ HIGH RETURNS

This technology increases the performance ratio, eliminates the potential hazards and material degradation, ensures better safety, long life and high investment returns.

### 🕒 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.

### + PLUS-SORTING

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



### SAFETY

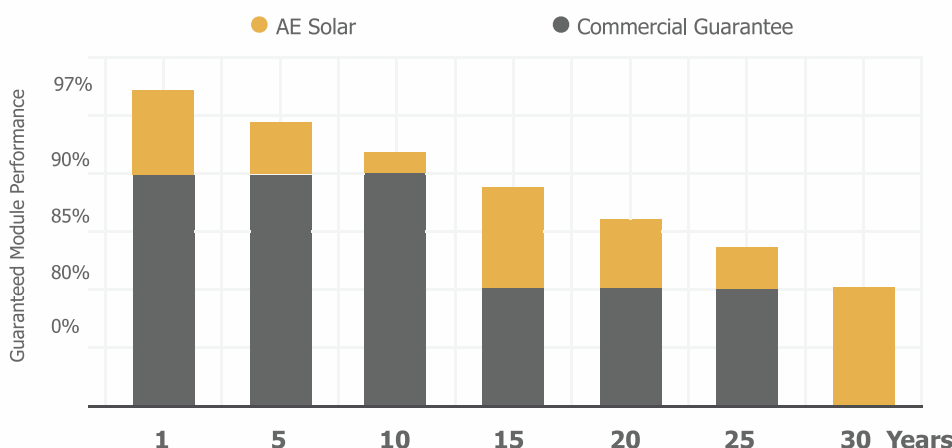
Back sheet is replaced by 2 mm tempered glass, ensuring additional safety, no back sheet degradation and surface for heat loss. Lower temperature offers better and more stable output during high temperature conditions.



### 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 HM6-72 Series 380W-400W

## SPECIFICATIONS

AE 380HM6-72 AE 385HM6-72 AE 390HM6-72 AE 395HM6-72 AE 400HM6-72

Nominal Max. Power	P <sub>max</sub> (Wp)	380	385	390	395	400
Maximum power voltage	V <sub>mp</sub> (V)	40.50	40.80	41.10	41.40	41.62
Maximum power current	I <sub>mp</sub> (A)	9.39	9.44	9.49	9.55	9.61
Open-circuit voltage	V <sub>oc</sub> (V)	48.90	49.10	49.30	49.50	49.70
Short-circuit current	I <sub>sc</sub> (A)	9.75	9.92	10.12	10.23	10.32
Module efficiency	(%)	18.94	19.19	19.44	19.69	19.94
Power tolerance	P <sub>max</sub> (Wp)	0 / +4.99				
Maximum system voltage DC	(V)	1500				
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.

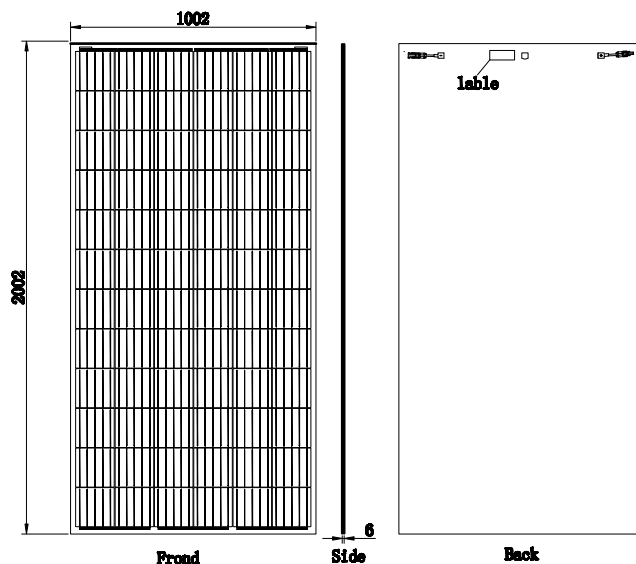
## MATERIAL CHARACTERISTICS

Cell Type	Mono-crystalline
Cell Dimension	158.75mm x 158.75mm
Dimensions	2002mm x 1002mm x 6mm (J-box not included)
Weight	28kg
Front Glass	2.5 mm tempered AR glass
Encapsulant	POE
Back Glass	2.5 mm tempered glass / 2.5 mm ceramic coated glass
Junction Box	IP68 (three bypass diodes)
Cable	4.0mm <sup>2</sup> , 300mm length or costumised
Connector	QC 4. 10-35
Wind load	2400Pa / 244kg / m <sup>2</sup>
Mechanical load	5400Pa / 550kg / m <sup>2</sup>

## PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading capacity	704 pcs / 40HQ
Size / pallet (mm)	2110 x 1115 x 2316
Weight	1970 kg / double pallet

## DIMENSIONS

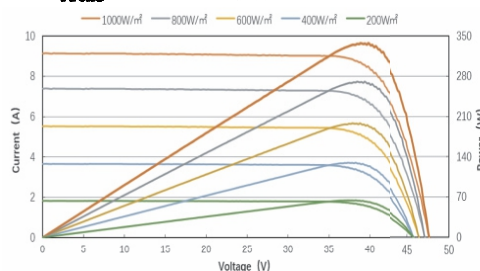


## CERTIFICATES



AES-DSH2019 V.002

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Excellent performance at 200W/m<sup>2</sup>(AM 1.5, 25 °C): the conversion efficiency could be 96.5% of STC

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