



Inspiring green-energy since 2003



# AE LARGE CELL MONOCRYSTALLINE PV MODULES

## AE HM6-60 Series 315W-335W

tested by **Fraunhofer**  
CSP

<b>60 CELLS</b>	<b>PID RESISTANT</b>	<b>SALT CORROSION RESISTANT</b>	<b>SAND RESISTANT</b>	<b>AMMONIA RESISTANT</b>	<b>HIGHLY STABLE AND TOUGH</b>
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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.

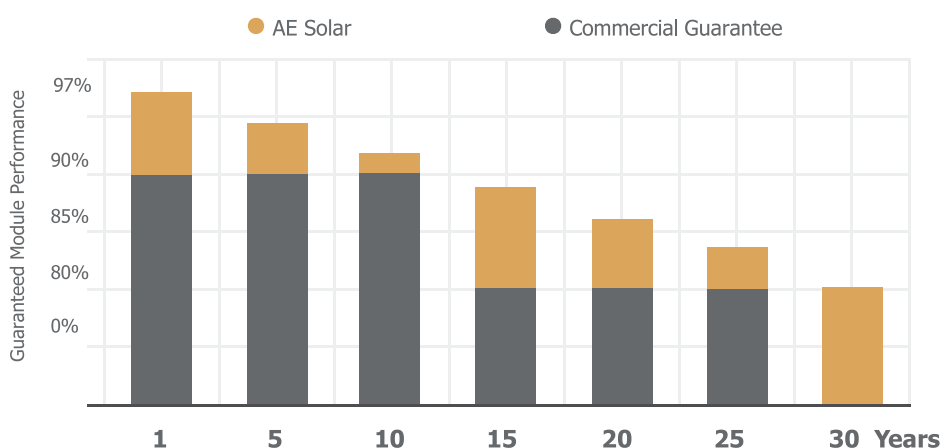
**RELIABILITY**  
Bypass diodes prevent cells mismatching at shaded areas. The lower temperature of hot-spot free modules will eliminate potential cause for back sheet degradation, hence enhancing reliability for longer term.

**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 HM6-60 Series 315W-335W

## SPECIFICATIONS

		AE315HM6-60	AE320HM6-60	AE325HM6-60	AE330HM6-60	AE335HM6-60
Nominal Max. Power	Pmax (Wp)	315	320	325	330	335
Maximum power voltage	Vmp(V)	33.20	33.40	33.61	33.81	34.02
Maximum power current	Imp (A)	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	Voc(V)	40.70	40.90	41.10	41.31	41.49
Short-circuit current	Isc (A)	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.99	19.30	19.60	19.90	20.20
Power tolerance	Pmax (Wp)			0/+4.99		
Maximum system voltage DC	(V)			1000		
Maximum series fuse rating	(A)			15		
Operating temperature	(°C)			-40 to +85		
Temp. coefficients of Pmax	(%/°C)			-0.37		
Temp. coefficients of Voc	(%/°C)			-0.28		
Temp. coefficients of Isc	(%/°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.

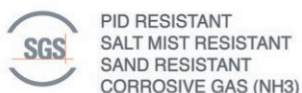
## MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1665 x 996 x 35 MM
Weight	18.5 KG
Junction box	IP 67 rated (3 bypass diodes)
Output cable	1 x 4.0mm <sup>2</sup> , 900mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 25 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>

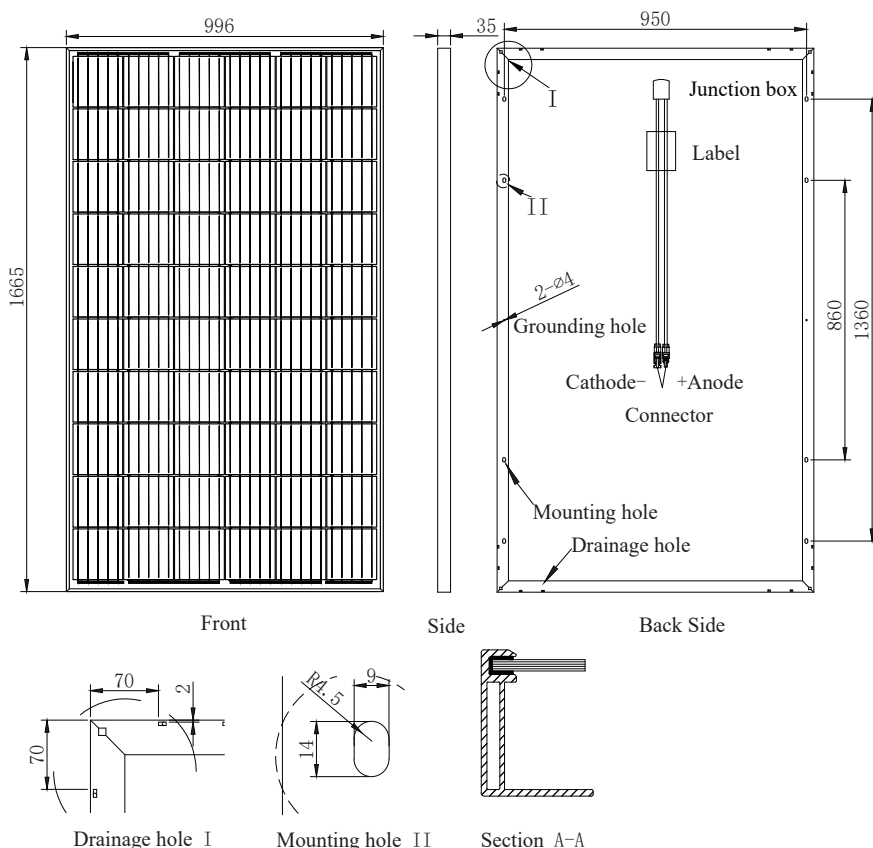
## PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1695 X 1135 X 2395mm
Weight	1283 KG / double pallet

## CERTIFICATES



## DIMENSIONS



AES-DSH2019 V.002  
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