



Inspiring green-energy since 2003

AE HALF CELL LARGE IEC 1500VDC MONOCRYSTALLINE PV MODULES

AE HM6L-72 Series 430W-450W



CSP

144 **CELLS**



RESISTANT



SALT CORROSION RESISTANT



RESISTANT

NH,

AMMONIA RESISTANT



HIGHLY STABLE AND TOUGH



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.

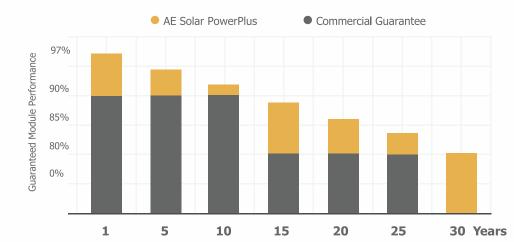
PLUS-SORTING

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 HALF CELL LARGE Series 430W-450W

SPECIFICATIONS

		AE430HM6L-72	AE435HM6L-72	AE440HM6L-72	AE445HM6L-72	AE450HM6L-72
Nominal Max. Power	Pmax (Wp)	430	435	440	445	450
Maximum power voltage	Vmp(V)	40.6	40.8	41.0	41.2	41.4
Maximum power current	Imp (A)	10.60	10.67	10.74	10.80	10.87
Open-circuit voltage	Voc(V)	49.2	49.4	49.6	49.8	50.0
Short-circuit current	Isc (A)	11.19	11.26	11.33	11.46	11.54
Module efficiency	(%)	19.8	20.0	20.2	20.5	20.7
Operating temperature	(°C)			-40 to +85		
Maximum system voltage DC	V (IEC)			1500		
Maximum series fuse rating	(A)			20		
Power tolerance	(%)			0/+4.99		
Temp. coefficients of Pmax	(%/°C)			-0.370		
Temp. coefficients of Voc	(%/°C)			-0.286		
Temp. coefficients of Isc	(%/°C)			0.057		
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 Mono-crystalline 166*83 mm No. of cells 144 Cells (72 Full Cells)

Dimensions 2094 x 1038 x 40

Weight 24KG

Junction box IP 68 rated (3 bypass diodes)

Output cable 1 x 4.0mm², 350 mm length or customised

Connector type PV Connector

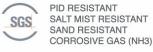
Hail resistance Max. Ø 25 mm, at 23 m/s

Wind load 2400 Pa / 244 kg/m² Mechanical load 5400 Pa / 550 kg/m²

CERTIFICATES















PACKAGING INFORMATION

Packing configuration 56 pcs / double pallet
Loading Capacity 616 pcs / 40HQ
Size / pallet (mm) 2120x1135x2415
Weight 1466kg /double pallet

DIMENSIONS

