



Inspiring green-energy since 2003

AE HALF LARGE CELL IEC 1500VDC MONOCRYSTALLINE PV MODULES AE HM6L-72 Series 525W-550W

tested by Fraunhofer **CSP**

144 **CELLS**







RESISTANT





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.



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 quarantee 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.

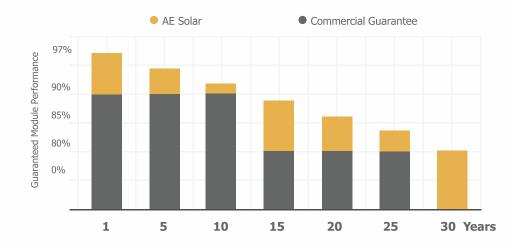
PLUS-SORTING

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 HM6L-72 Series 525W-550W

SPECIFICATIONS

AE525HM6L-72 AE530HM6L-72 AE535HM6L-72 AE545HM6L-72 AE545HM6L-72 AE550HM6L-72

Nominal Max. Power	Pmax (Wp)	525	530	535	540	545	550	
Maximum power voltage	Vmp(V)	41.47	41.70	41.93	42.16	42.57	42.98	
Maximum power current	Imp (A)	12.66	12.71	12.76	12.81	12.86	12.92	
Open-circuit voltage	Voc(V)	49.50	49.65	49.78	49.90	50.01	51.44	
Short-circuit current	Isc (A)	13.42	13.47	13.52	13.57	13.62	13.67	
Module efficiency	(%)	20.3	20.5	20.7	20.9	21.1	21.3	
Operating temperature	(°C)	-40 to +85						
Maximum system voltage DC	V (IEC)	EC) 1500						
Maximum series fuse rating	(A)	(A) 25						
Power tolerance	(%)	(%) 0/+4.99						
Temp. coefficients of Pmax	(%/°C)	(%/°C) -0.350						
Temp. coefficients of Voc	(%/°C)	(%/°C) -0.275						
Temp. coefficients of Isc	(%/°C)	%/°C) 0.045						
Nom. Operating cell temp.(NOC	T) (°C)	(°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 182 X 91 mm No. of cells 144 Cells (72 Full Cells)

Dimensions 2278 X 1133 X 35

Weight 27KG

Junction box IP 68 rated (3 bypass diodes)

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

Connector type MC4 / MC4 compatible
Hail resistance Max. Ø 25 mm, at 23 m/s

Wind load 2400 Pa / 244 kg/m²

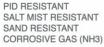
Wind load 2400 Pa / 244 kg/m² Mechanical load 5400 Pa / 550 kg/m²

CERTIFICATES













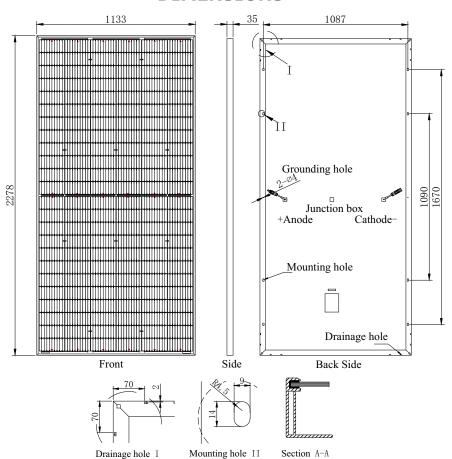


PACKAGING INFORMATION

Packing configuration 60 pc Loading Capacity 600 pc Size / pallet (mm) 2310 Weight 1750

60 pcs / double pallet 600 pcs / 40HQ 2310x1135x2490 1750 kg /double pallet

DIMENSIONS



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