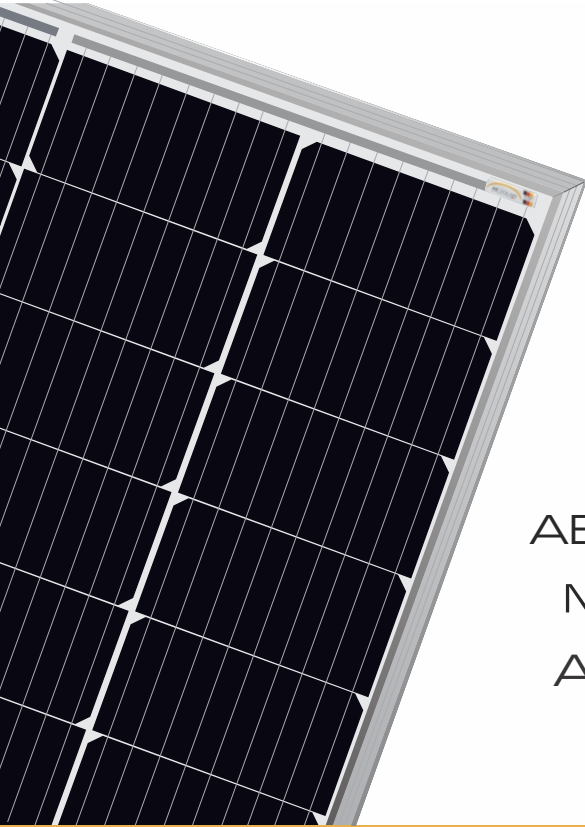




Inspiring green-energy since 2003

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

tested by  **Fraunhofer**
CSP

144
CELLS


PID
RESISTANT


SALT CORROSION
RESISTANT


SAND
RESISTANT


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.

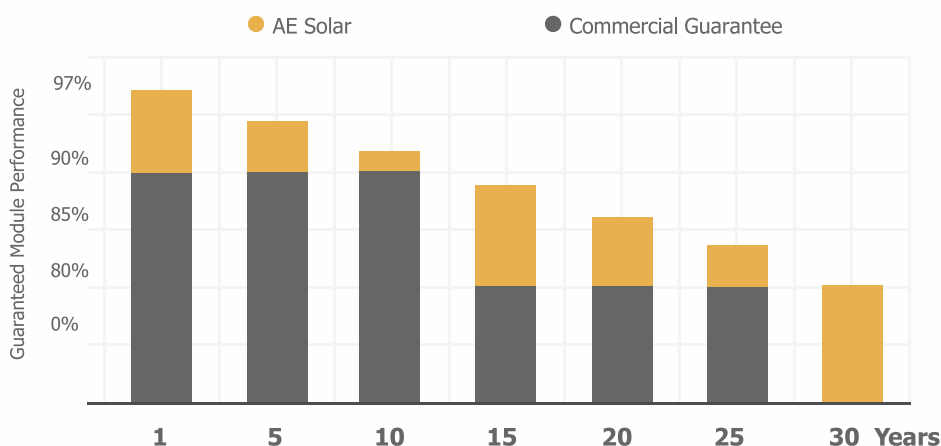
PLUS-SORTING

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 HM6L-72 Series 525W-550W

SPECIFICATIONS

AE525HM6L-72 AE530HM6L-72 AE535HM6L-72 AE540HM6L-72 AE545HM6L-72 AE550HM6L-72

Nominal Max. Power	P _{max} (Wp)	525	530	535	540	545	550
Maximum power voltage	V _{mp} (V)	41.47	41.70	41.93	42.16	42.57	42.98
Maximum power current	I _{mp} (A)	12.66	12.71	12.76	12.81	12.86	12.92
Open-circuit voltage	V _{oc} (V)	49.50	49.65	49.78	49.90	50.01	51.44
Short-circuit current	I _{sc} (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)	1500					
Maximum series fuse rating	(A)	25					
Power tolerance	(%)	0/+4.99					
Temp. coefficients of P _{max}	(%/°C)	-0.350					
Temp. coefficients of V _{oc}	(%/°C)	-0.275					
Temp. coefficients of I _{sc}	(%/°C)	0.045					
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 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 4.0mm ² , 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/m ²
Mechanical load	5400 Pa / 550 kg/m ²

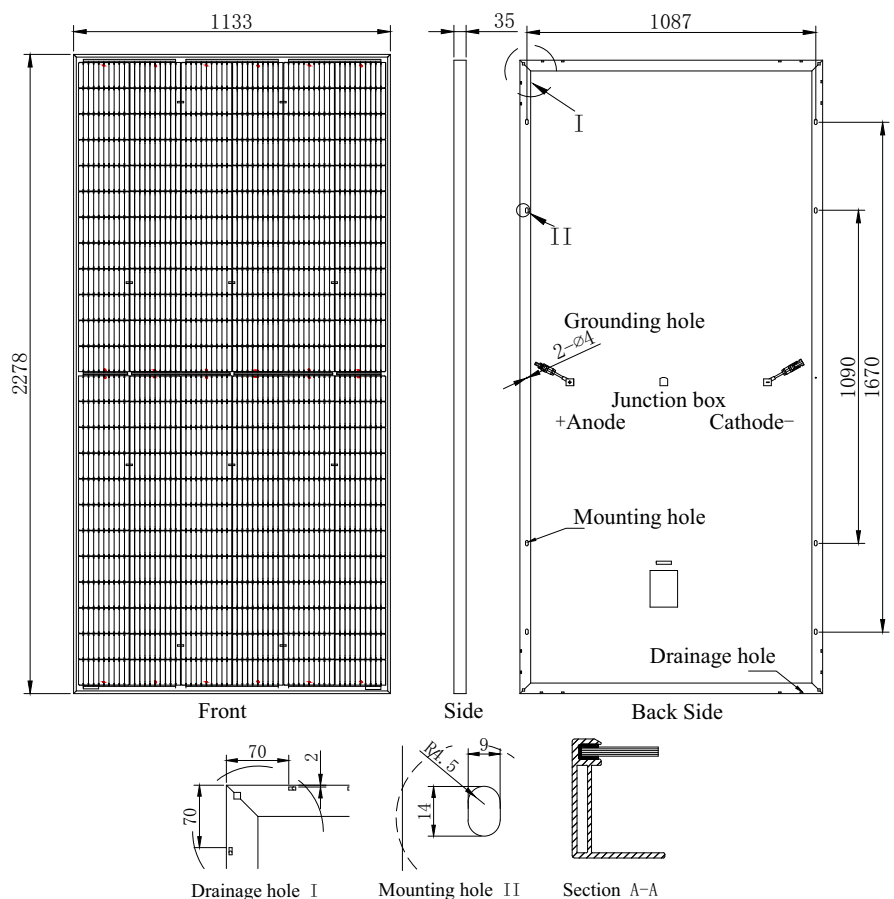
PACKAGING INFORMATION

Packing configuration	60 pcs / double pallet
Loading Capacity	600 pcs / 40HQ
Size / pallet (mm)	2310x1135x2490
Weight	1750kg /double pallet

CERTIFICATES



DIMENSIONS



AES-DSH2019 V.002

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