



Inspiring green-energy since 2003



AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6L-66 Series 495W-505W

tested by  **Fraunhofer**
CSP

132 CELLS	 MICRO-CRACK FREE	 PID RESISTANT	 SALT CORROSION RESISTANT	 SAND RESISTANT	$\frac{NH_3}{S}$ AMMONIA RESISTANT	 HIGHLY STABLE AND TOUGH
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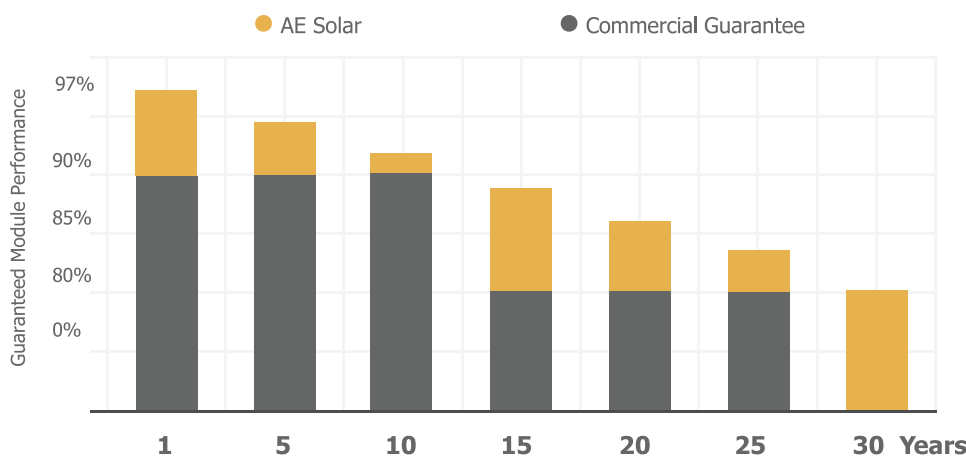
✓ GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

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

🕒 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.

📄 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-66 Series 495W-505W

SPECIFICATIONS

		AE495HM6L-66	AE500HM6L-66	AE505HM6L-66
Nominal Max. Power	P _{max} (Wp)	495	500	505
Maximum power voltage	V _{mp} (V)	38.79	39.03	39.27
Maximum power current	I _{mp} (A)	12.76	12.81	12.86
Open-circuit voltage	V _{oc} (V)	46.34	46.64	46.93
Short-circuit current	I _{sc} (A)	13.52	13.57	13.62
Module efficiency	(%)	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)	-0.35		
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	132 (66 full cells)
Dimensions	2094 x 1133 x 35 MM
Weight	26 KG
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² 350 mm 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 ²
Mechanical load	5400 Pa / 550 kg/m ²

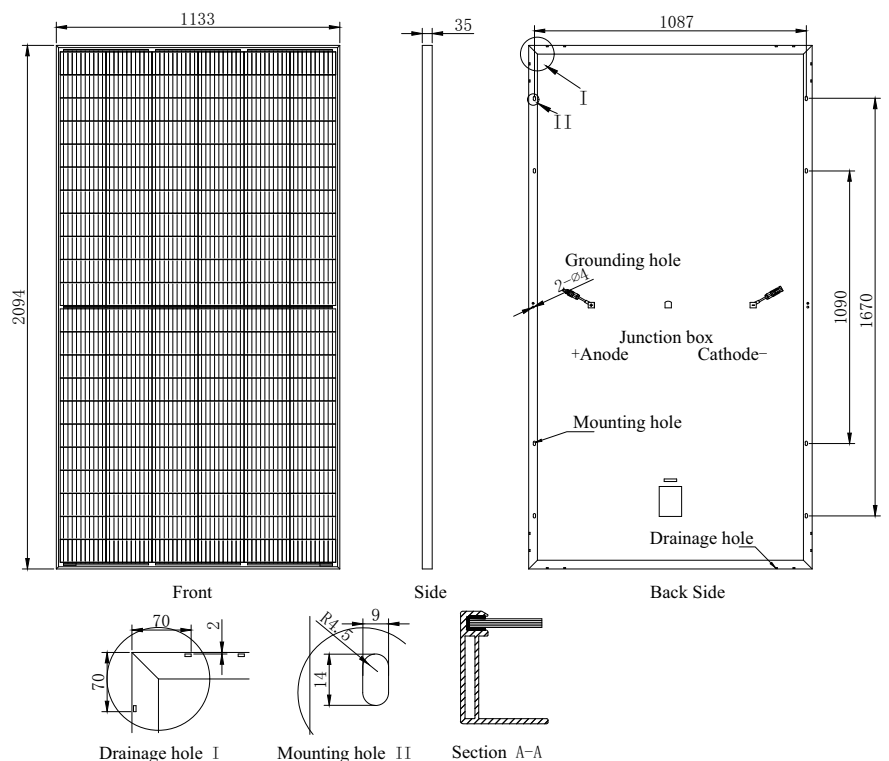
PACKAGING INFORMATION

Packing configuration	60 pcs / double pallet
Loading Capacity	660 pcs / 40HQ
Size / pallet (mm)	2125 x1135 x2490
Weight	1680 kg / double pallet

CERTIFICATES



DIMENSIONS



AES-DSH2019 V.002
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