



Inspiring green-energy since 2003



AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES

AE MD-1 32 Series 485W-505W

tested by  **Fraunhofer**
CSP

132
CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



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

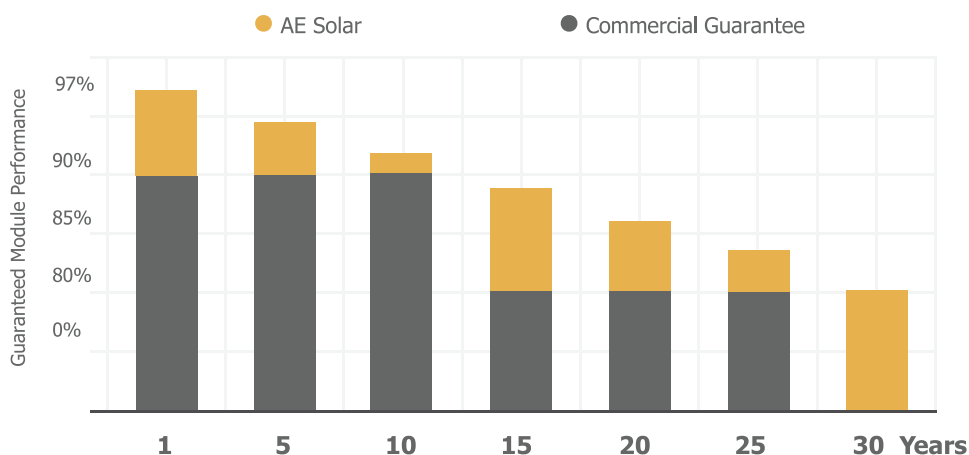
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.



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 MD-132 Series 495W-505W

SPECIFICATIONS

		AE485MD-132	AE490MD-132	AE495MD-132	AE500MD-132	AE505MD-132
Nominal Max. Power	P _{max} (Wp)	485	490	495	500	505
Maximum power voltage	V _{mp} (V)	38.31	38.55	38.79	39.03	39.27
Maximum power current	I _{mp} (A)	12.66	12.71	12.76	12.81	12.86
Open-circuit voltage	V _{oc} (V)	45.75	46.05	46.34	46.64	46.93
Short-circuit current	I _{sc} (A)	13.42	13.47	13.52	13.57	13.62
Module efficiency	(%)	20.44	20.65	20.86	21.07	21.29
Operating temperature	(°C)	-40 to +85				
Maximum system voltage DC	V (IEC)	1500				
Maximum series fuse rating	(A)	25				
Power tolerance	(%)	0 ~ + 5				
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.

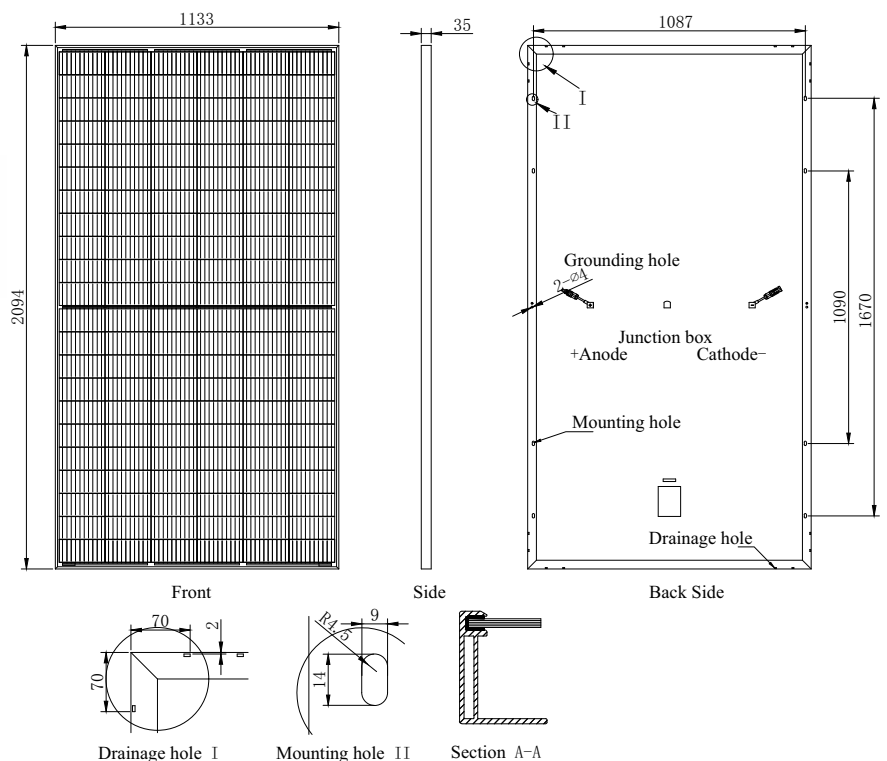
MATERIAL CHARACTERISTICS

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 (3 bypass diodes)
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	62 pcs / double pallet
Loading Capacity	682 pcs / 40HQ
Size / pallet (mm)	2125 x1140 x 2490 mm
Weight	1732 kg / double pallet

DIMENSIONS



CERTIFICATES



AE-DSH2019 V.002
All rights reserved. Specifications included in this data sheet are subject to change without notice.

AE SOLAR

Messerschmittring 54
86343 Königsbrunn
Germany

Tel.: +49 8231 92 92 52 2
Fax: +49 8231 97 82 68 9
Email: sales@ae-solar.com
Web: www.ae-solar.com