



Inspiring green-energy since 2003



AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES AE MD-1 32 Series 485W-505W

| | | | | | | |
|------------------|-------------------------|----------------------|---------------------------------|-----------------------|--------------------------|--------------------------------|
| 132 CELLS | MICRO-CRACK FREE | PID RESISTANT | SALT CORROSION RESISTANT | SAND RESISTANT | AMMONIA RESISTANT | HIGHLY STABLE AND TOUGH |
|------------------|-------------------------|----------------------|---------------------------------|-----------------------|--------------------------|--------------------------------|

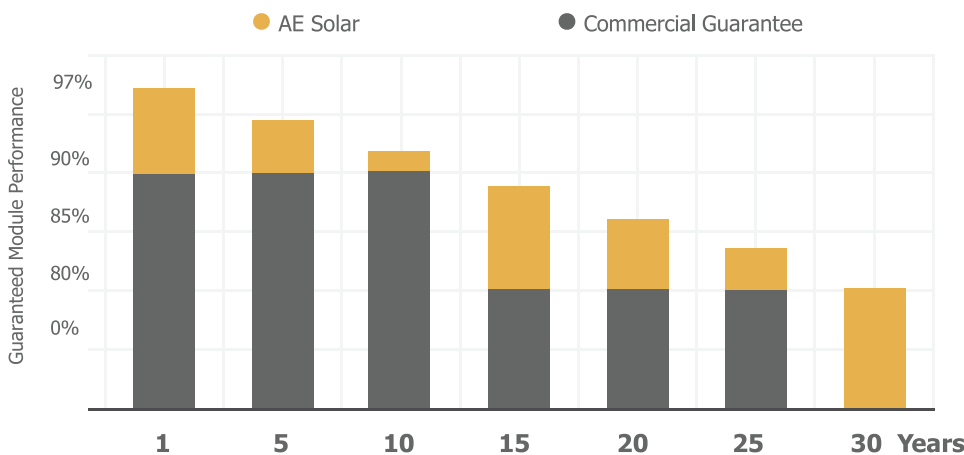
✓ GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

+ 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 485W-505W

SPECIFICATIONS

| | | AE485MD-132 | AE490MD-132 | AE495MD-132 | AE500MD-132 | AE505MD-132 |
|---------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Nominal Max. Power | Pmax (Wp) | 485 | 490 | 495 | 500 | 505 |
| Maximum power voltage | Vmp(V) | 38.31 | 38.55 | 38.79 | 39.03 | 39.27 |
| Maximum power current | Imp (A) | 12.66 | 12.71 | 12.76 | 12.81 | 12.86 |
| Open-circuit voltage | Voc(V) | 45.75 | 46.05 | 46.34 | 46.64 | 46.93 |
| Short-circuit current | Isc (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 Pmax | (%/°C) | -0.35 | | | | |
| Temp. coefficients of Voc | (%/°C) | -0.275 | | | | |
| Temp. coefficients of Isc | (%/°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.

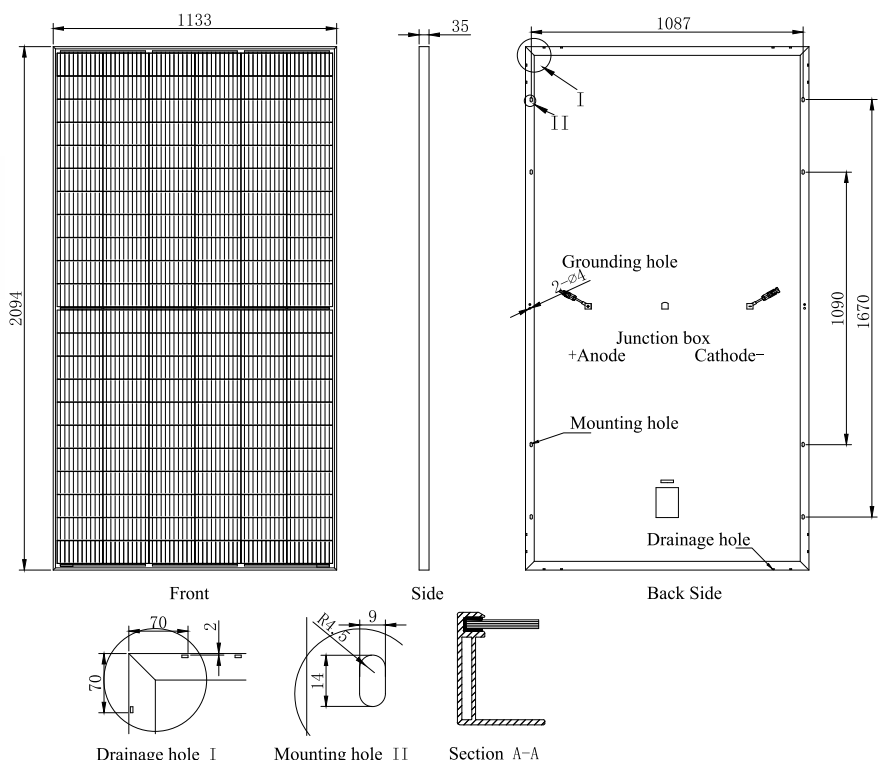
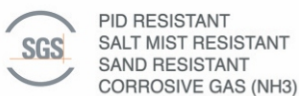
MATERIAL CHARACTERISTICS

| | |
|-----------------|--|
| 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 |

CERTIFICATES



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