

AE DOUBLE-GLASS MONOCRYSTALLINE PV MODULES AE M6-60 Series 290W-320W THE LIGHTWEIGHT TECHNOLOGY

60 CELLS	 MICRO-CRACK FREE	 FIRE CLASS A	 PID RESISTANT	 SALT CORROSION RESISTANT	 SAND RESISTANT	 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.

\$ HIGH RETURNS
This technology increases the performance ratio, eliminates the potential hazards and material degradation, ensures better safety, long life and high investment returns.

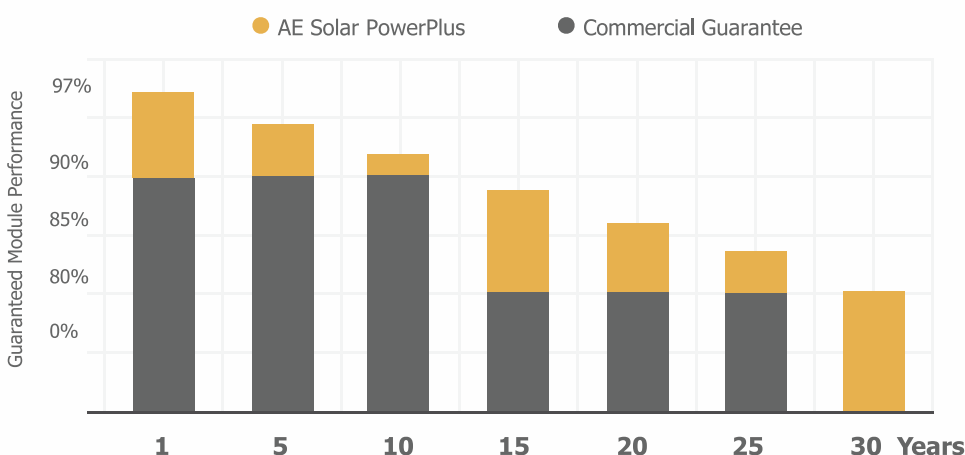
🕒 PERFORMANCE GUARANTEE
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.

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

🛡️ SAFETY
Back sheet is replaced by 2 mm tempered glass, ensuring additional safety, no back sheet degradation and surface for heat loss. Lower temperature offers better and more stable output during high temperature conditions.

📄 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 M6-60 Series 290W-320W

SPECIFICATIONS

AE290M6-60 AE295M6-60 AE300M6-60 AE305M6-60 AE310M6-60 AE315M6-60 AE320M6-60

Nominal Max. Power	Pmax (Wp)	290	295	300	305	310	315	320
Maximum power voltage	Vmp(V)	32.69	33.03	33.52	34.00	34.48	34.96	35.44
Maximum power current	Imp (A)	8.87	8.93	8.95	8.97	8.99	9.01	9.03
Open-circuit voltage	Voc(V)	38.65	39.03	39.41	39.78	40.15	40.51	40.86
Short-circuit current	Isc (A)	9.62	9.69	9.76	9.83	9.9	9.97	10.04
Module efficiency	(%)	17.63	17.94	18.24	18.54	18.85	19.15	19.46
Power tolerance	Pmax (Wp)	0 / +4.99						
Maximum system voltage DC	(V)	1500						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of Pmax	(%/°C)	-0.436						
Temp. coefficients of Voc	(%/°C)	-0.325						
Temp. coefficients of Isc	(%/°C)	0.054						
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.

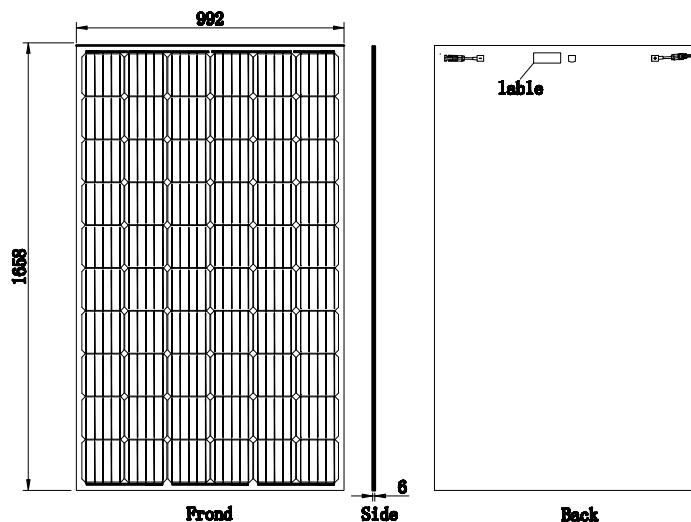
MATERIAL CHARACTERISTICS

Cell Type	Mono-crystalline
Cell Dimension	156.75mm × 156.75mm
Dimensions	1658mm x 992mm x 6mm (J-box not included)
Weight	23kg
Front Glass	2.5mm tempered AR glass
Encapsulant	POE
Back Glass	2.5 mm tempered glass / 2.5 mm ceramic coated glass
Junction Box	IP68 (three bypass diodes)
Cable	4.0mm ² , 300mm length or costumised
Connector	QC 4. 10-35
Wind load	2400Pa / 244kg / m ²
Mechanical load	5400Pa / 550kg / m ²

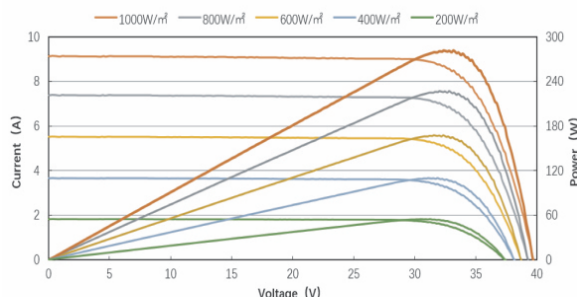
PACKAGING INFORMATION

Packing configuration	66 pcs / pallet
Loading capacity	858 pcs / 40HQ
Size / pallet (mm)	1710 x 1140 x 2264
Weight	1610 kg

DIMENSIONS



CERTIFICATES



Excellent performance at 200W/m²(AM 1.5, 25 °C): the conversion efficiency could be 96.6% of STC

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