



Inspiring green-energy since 2003



AE DOUBLE-GLASS POLYCRYSTALLINE PV MODULES AE P6-60 Series 270W-290W THE LIGHTWEIGHT TECHNOLOGY

| | | | | | | | |
|-------|---------------------|-----------------|------------------|-----------------------------|-------------------|----------------------|----------------------------|
| 60 | | | | | | $\frac{NH_3}{S}$ | |
| CELLS | MICRO-CRACK FREE | FIRE CLASS A | 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.

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

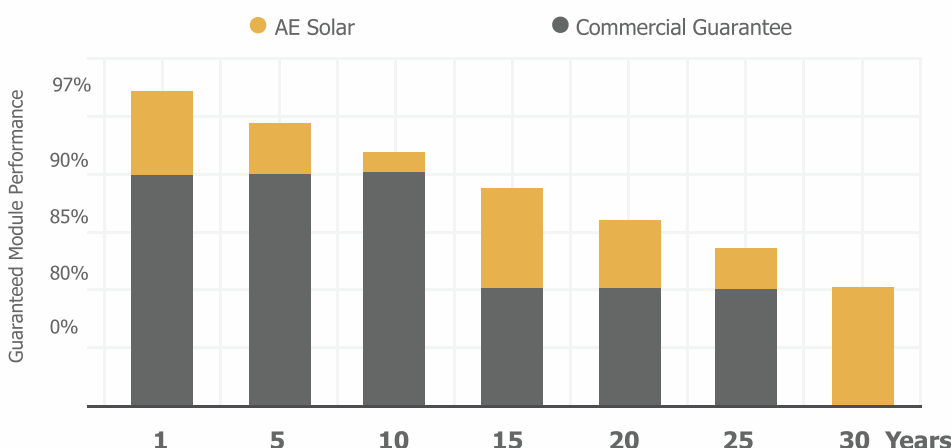
🕒 **PERFORMANCE GUARANTEE**
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.

+ **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



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE P6-60 Series 270W-290W

SPECIFICATIONS

| | | AE270P6-60 | AE275P6-60 | AE280P6-60 | AE285P6-60 | AE290P6-60 |
|--|-----------------------|------------|------------|------------|------------|------------|
| Nominal Max. Power | P _{max} (Wp) | 270 | 275 | 280 | 285 | 290 |
| Maximum power voltage | V _{mp} (V) | 31.07 | 31.42 | 31.78 | 32.13 | 32.47 |
| Maximum power current | I _{mp} (A) | 8.69 | 8.75 | 8.81 | 8.87 | 8.93 |
| Open-circuit voltage | V _{oc} (V) | 38.08 | 38.49 | 38.89 | 39.29 | 39.68 |
| Short-circuit current | I _{sc} (A) | 9.09 | 9.16 | 9.23 | 9.30 | 9.37 |
| Module efficiency | (%) | 16.42 | 16.72 | 17.02 | 17.33 | 17.63 |
| Power tolerance | P _{max} (Wp) | 0 / +4.99 | | | | |
| Maximum system voltage DC | (V) | 1500 | | | | |
| Operating temperature | (°C) | -40 to +85 | | | | |
| Temp. coefficients of P _{max} | (%/°C) | -0.433 | | | | |
| Temp. coefficients of V _{oc} | (%/°C) | -0.328 | | | | |
| Temp. coefficients of I _{sc} | (%/°C) | 0.059 | | | | |
| 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.

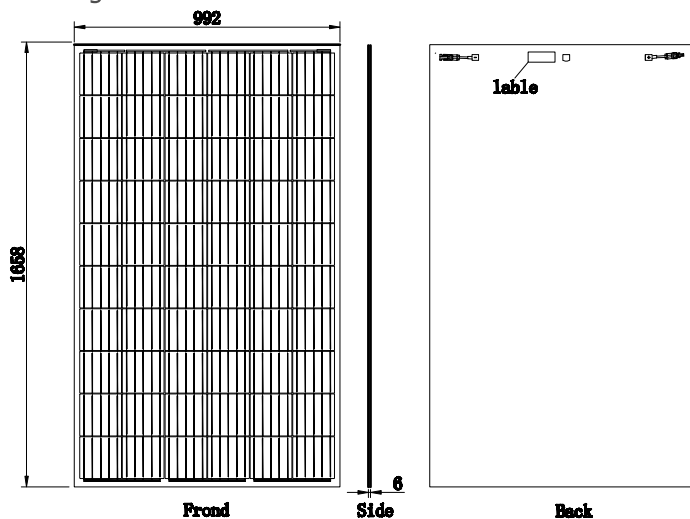
MATERIAL CHARACTERISTICS

| | |
|-----------------|---|
| Cell Type | Poly-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 |

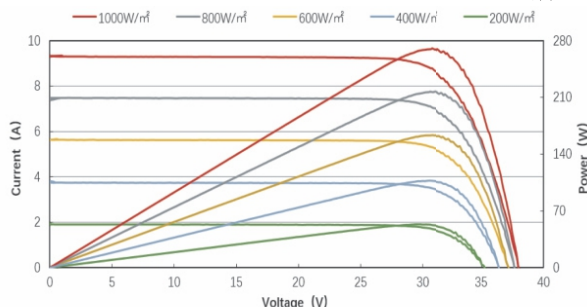
PACKAGING INFORMATION

| | |
|-----------------------|-------------------------|
| Packing configuration | 64 pcs / double pallet |
| Loading capacity | 832 pcs / 40HQ |
| Size / pallet (mm) | 1770 x 1115 x 2305 |
| Weight | 1570 kg / double pallet |

DIMENSIONS



CERTIFICATES



Excellent performance at 200W/m²(AM 1.5, 25 °C): the conversion efficiency could be 96.2% of STC

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