



Inspiring green-energy since 2003

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

<b>60</b> CELLS	MICRO-CRACK FREE	FIRE CLASS A	PID	SALT CORROSION RESISTANT	SAND RESISTANT	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.

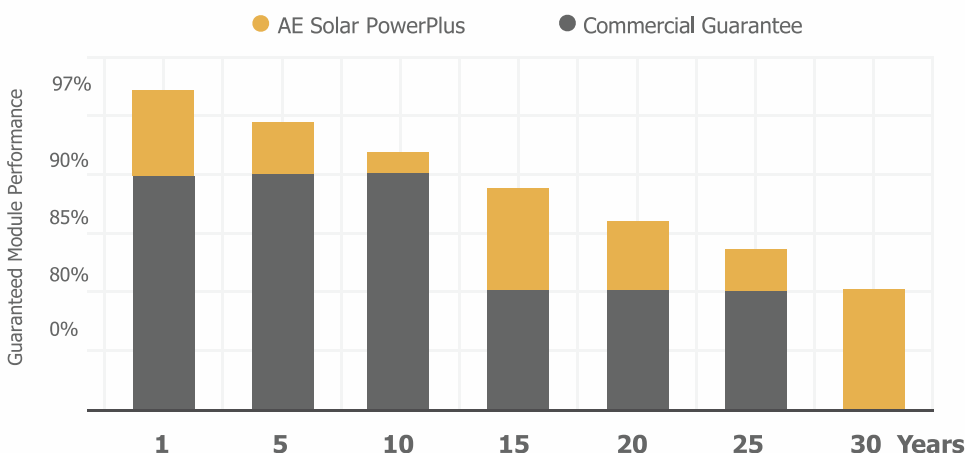
**🕒 PERFORMANCE GUARANTEE**  
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.

**+ 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 P6-60 Series 270W-290W

### SPECIFICATIONS

		AE270P6-60	AE275P6-60	AE280P6-60	AE285P6-60	AE290P6-60
Nominal Max. Power	Pmax (Wp)	270	275	280	285	290
Maximum power voltage	Vmp(V)	31.07	31.42	31.78	32.13	32.47
Maximum power current	Imp (A)	8.69	8.75	8.81	8.87	8.93
Open-circuit voltage	Voc(V)	38.08	38.49	38.89	39.29	39.68
Short-circuit current	Isc (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	Pmax (Wp)	0 / +4.99				
Maximum system voltage DC	(V)	1500				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of Pmax	(%/°C)	-0.433				
Temp. coefficients of Voc	(%/°C)	-0.328				
Temp. coefficients of Isc	(%/°C)	0.059				
Nom. Operating cell temp.(NOCT)	(°C)	45±2				

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25°C.

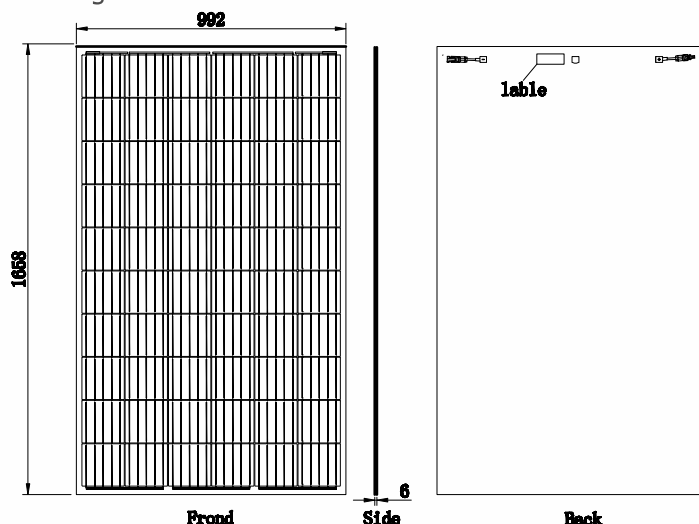
### MATERIAL CHARACTERISTICS

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 <sup>2</sup> , 300mm length or costumised
Connector	QC 4. 10-35
Wind load	2400Pa / 244kg / m <sup>2</sup>
Mechanical load	5400Pa / 550kg / m <sup>2</sup>

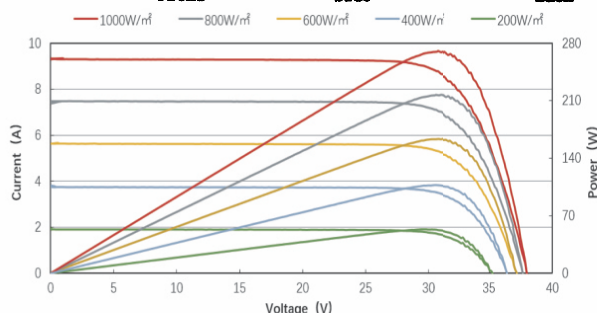
### PACKAGING INFORMATION

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/m<sup>2</sup>(AM 1.5, 25 °C): the conversion efficiency could be 96.2% of STC

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