



Inspiring green-energy since 2003



AE POWERPLUS POLYCRYSTALLINE PV MODULES AE P6-36 Series 160W-170W

tested by **Fraunhofer**
CSP

36 CELLS	PID RESISTANT	SALT CORROSION RESISTANT	SAND RESISTANT	$\frac{NH_3}{S}$ AMMONIA RESISTANT	HIGHLY STABLE AND TOUGH
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TEMPERATURE
Hot spot temperature lower than 85°C
The IEC61215 test shows that with a zero percentage, a small and a 100 percentage of shaded area, respectively hot spots will not exceed 85°C, which is the maximum operating condition.

SAFETY
Instantly reduced temperature, thus eliminating material hazard and ensuring more safety of the module, preventing fire risks caused by hot spots.

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

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.

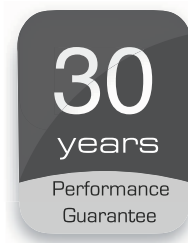
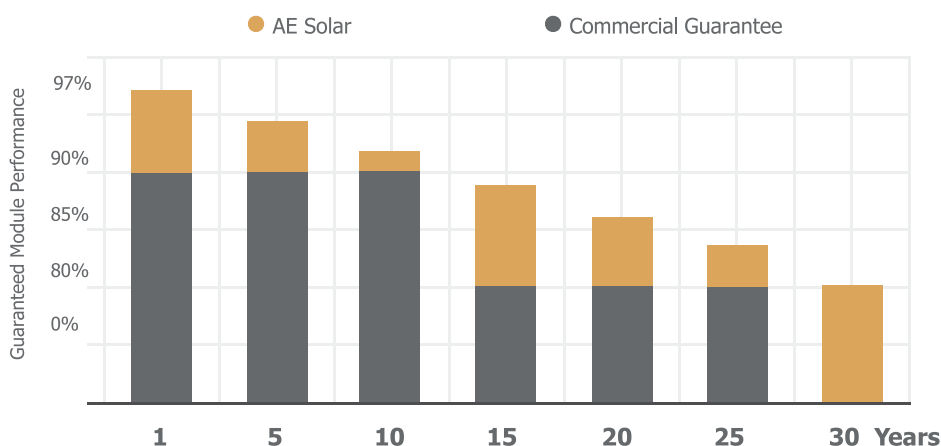
RELIABILITY
Bypass diodes prevent cells mismatching at shaded areas. The lower temperature of hot-spot free modules will eliminate potential cause for back sheet degradation, hence enhancing reliability for longer term.

HIGH RETURNS
This new technology prevents instant falls in the module output, thus increasing the performance ratio up to 30% and return for all types of installations.

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

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 P6-36 Series 160W-170W

SPECIFICATIONS

		AE160P6-36	AE165P6-36	AE170P6-36
Nominal Max. Power	Pmax (Wp)	160	165	170
Maximum power voltage	Vmp(V)	18.32	18.73	19.15
Maximum power current	Imp (A)	8.73	8.81	8.88
Open-circuit voltage	Voc(V)	22.90	23.10	23.31
Short-circuit current	Isc (A)	9.31	9.35	9.42
Module efficiency	(%)	16.14	16.64	17.14
Power tolerance	Pmax (Wp)	0 / + 4.99		
Maximum system voltage DC	(V)	1000		
Maximum series fuse rating	(A)	15		
Operating temperature	(°C)	-40 to +85		
Temp. coefficients of Pmax	(%/°C)	-0.40		
Temp. coefficients of Voc	(%/°C)	-0.31		
Temp. coefficients of Isc	(%/°C)	0.053		
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.

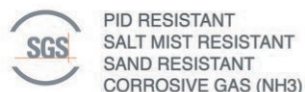
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 156.75mm x 156.75mm
No. of cells	36 (4 x 9)
Dimensions	1480 x 670 x 35 mm
Weight	10.8 kg
Junction box	IP 67 rated
Output cable	1 x 4.0mm ² , 900mm 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	90 pcs / double pallet
Loading Capacity	1350 pcs / 40HQ
Size / pallet (mm)	1510 x 1135 x 2370
Weight	1107 kg / double pallet

CERTIFICATES



DIMENSIONS

