

Inspiring green-energy since 2003



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

36 CELLS









NH,



HIGHLY STABLE AND TOUGH



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.



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



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.

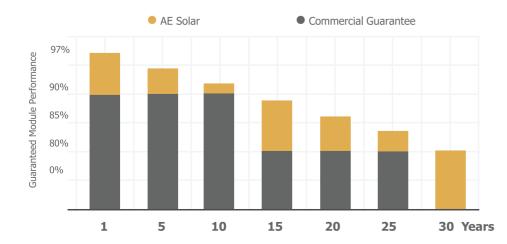
#### PLUS-SORTING

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**











## **TECHNICAL DATA**

AE P6-36 Series 160W-170W

<b>SPECIFICATIONS</b>				
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 × 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<sup>2</sup>, 900mm length or customised

Connector type MC 4 / MC 4 compatible
Hail resistance Max. Ø25 mm, at 23 m/s

Wind load 2400 Pa / 244 kg/m<sup>2</sup> Mechanical load 5400 Pa / 550 kg/m<sup>2</sup>

## **CERTIFICATES**







PID RESISTANT SALT MIST RESISTANT SAND RESISTANT CORROSIVE GAS (NH3)



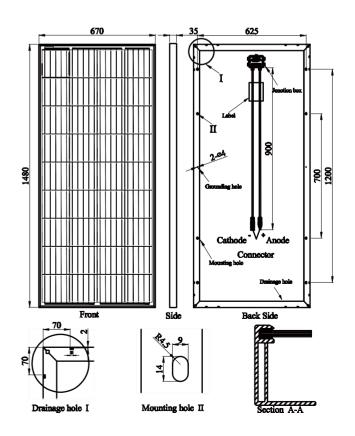




## **PACKAGING INFORMATION**

Packing configuration 90 pcs / double pallet
Loading Capacity 1350 pcs / 40HQ
Size / pallet (mm) 1510 x 1135 x 2370
Weight 1107 kg / double pallet

### **DIMENSIONS**



Tel.: +49 8231 92 92 52 2 Fax: +49 8231 97 82 68 9 Email: sales@ae-solar.com Web: www.ae-solar.com