



Inspiring green-energy since 2003



AE POWERPLUS  
POLYCRYSTALLINE PV MODULES  
AE P6-60 Series 265 W-290W  
tested by **Fraunhofer**  
CSP

<b>60</b> CELLS	<b>MICRO-CRACK FREE</b>	<b>PID RESISTANT</b>	<b>SALT CORROSION RESISTANT</b>	<b>SAND RESISTANT</b>	$\frac{NH_3}{S}$ <b>AMMONIA RESISTANT</b>	<b>HIGHLY STABLE AND TOUGH</b>
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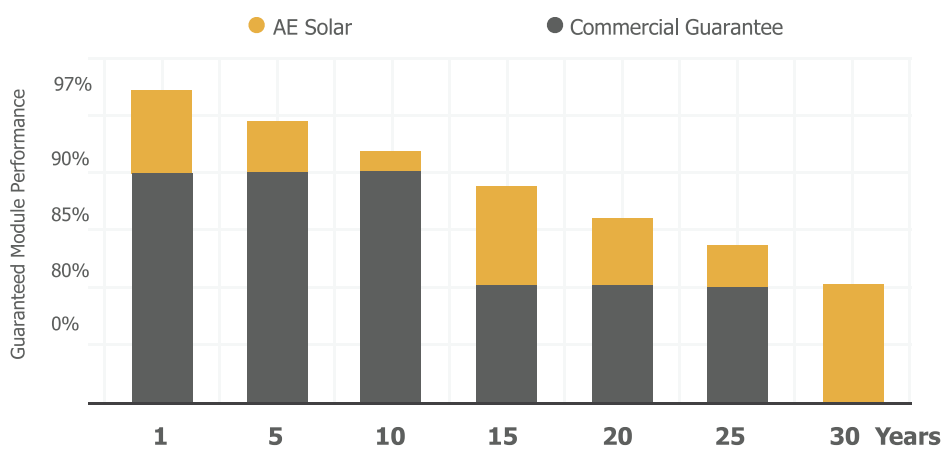
**GERMAN QUALITY**  
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

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

**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.

**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 265W-290W

### SPECIFICATIONS

		AE265P6-60	AE270P6-60	AE275P6-60	AE280P6-60	AE285P6-60	AE290P6-60
Nominal Max. Power	P <sub>max</sub> (Wp)	265	270	275	280	285	290
Maximum power voltage	V <sub>mp</sub> (V)	30.41	30.82	31.24	31.65	32.07	32.48
Maximum power current	I <sub>mp</sub> (A)	8.71	8.76	8.80	8.85	8.89	8.93
Open-circuit voltage	V <sub>oc</sub> (V)	38.10	38.31	38.52	38.72	38.93	39.14
Short-circuit current	I <sub>sc</sub> (A)	9.26	9.31	9.35	9.38	9.44	9.47
Module efficiency	(%)	16.19	16.50	16.80	17.11	17.41	17.72
Power tolerance	P <sub>max</sub> (Wp)	0 / + 5					
Maximum system voltage DC	(V)	1000					
Operating temperature	(°C)	-40 to +85					
Temp. coefficients of P <sub>max</sub>	(%/°C)	-0.40					
Temp. coefficients of V <sub>oc</sub>	(%/°C)	-0.31					
Temp. coefficients of I <sub>sc</sub>	(%/°C)	0.053					
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.

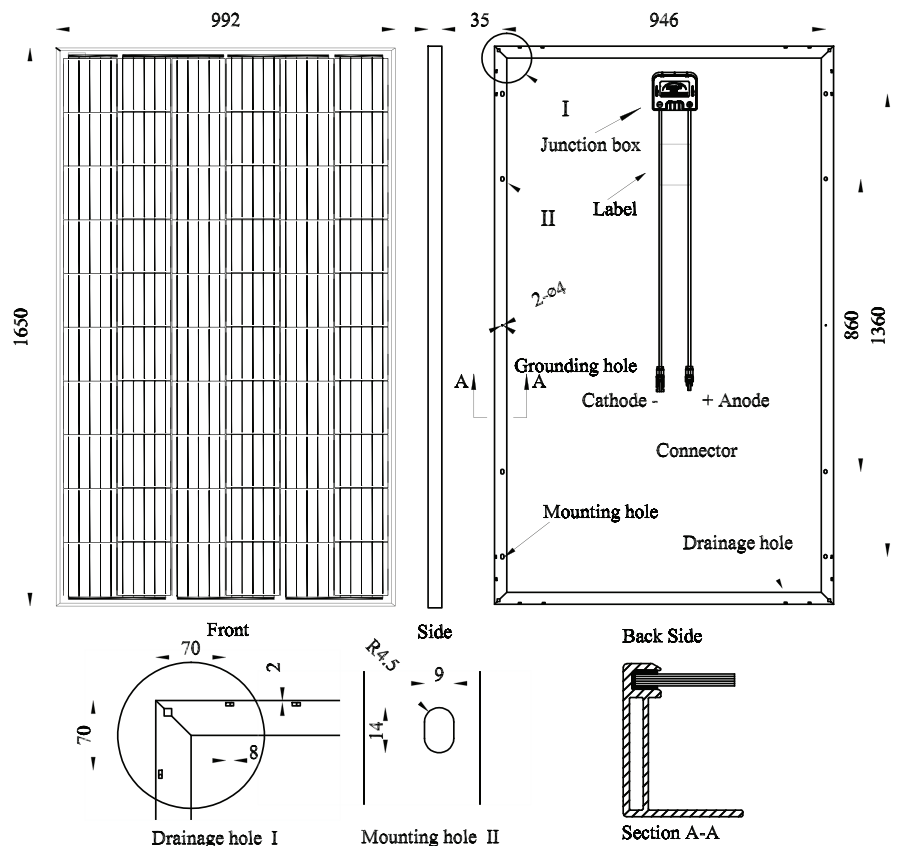
### MATERIAL CHARACTERISTICS

Cell type	Poly-crystalline 156.75mm × 156.75mm
No. of cells	60 (6 × 10)
Dimensions	1650 x 992 x 35mm
Weight	17,5 kg
Junction box	IP 67 MC 4 compatible
Output cable	1 x 4.0mm <sup>2</sup> , 900mm length or customised
Connector type	MC 4 compatible
Hail resistance	Max. Ø 28 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>

### PACKAGING INFORMATION

Packing configuration	64 pcs/double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1685 X 1135 X 2390
Weight	1220 kg / double pallet

### DIMENSIONS



### CERTIFICATES



AES-DSH2019 V.002  
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