AE SOLAR
alternative energy

Inspiring green-energy since 2003

TIER 1 Bloomberg NEW ENERGY FINANCE

AE POWERPLUS POLYCRYSTALLINE PV MODULES AE P6-36 Series 155W-175W

tested by Fraunhofer CSP

36 CELLS | **MICRO-CRACK FREE** | **PID RESISTANT** | **SALT CORROSION RESISTANT** | **SAND RESISTANT** | **AMMONIA RESISTANT** | **HIGHLY STABLE AND TOUGH**

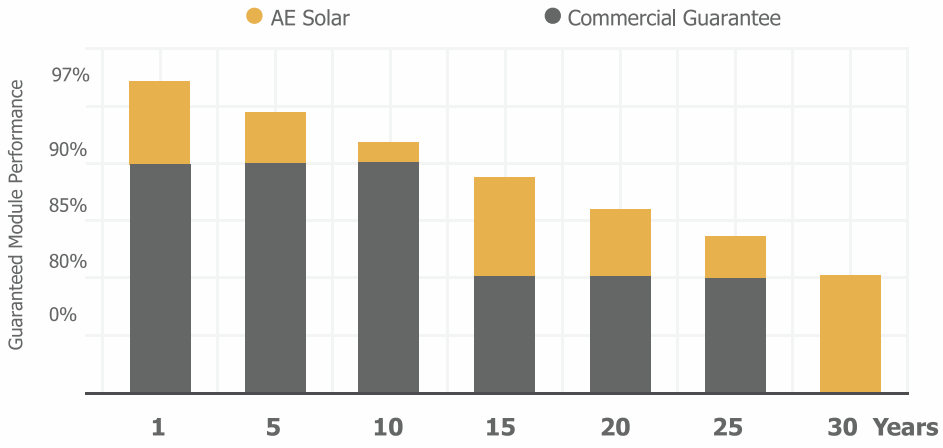
GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

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 P6-36 Series 155W-175W

SPECIFICATIONS

		AE155P6-36	AE160P6-36	AE165P6-36	AE170P6-36	AE175P6-36
Nominal Max. Power	Pmax (Wp)	155	160	165	170	175
Maximum power voltage	Vmp(V)	17.90	18.32	18.73	19.15	19.56
Maximum power current	Imp (A)	8.66	8.73	8.81	8.88	8.95
Open-circuit voltage	Voc(V)	22.69	22.90	23.10	23.31	23.52
Short-circuit current	Isc (A)	9.27	9.31	9.35	9.42	9.48
Module efficiency	(%)	15.63	16.14	16.64	17.14	17.65
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^2, 900mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. ∅ 28 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

SGS TÜV SAAR — IEC 61215, IEC 61730, PERIODICAL INSPECTION

SGS — IEC 61215, IEC 61730, PERIODICAL INSPECTION

SGS — PID RESISTANT, SALT MIST RESISTANT, SAND RESISTANT, CORROSIVE GAS (NH3)

ISO14001

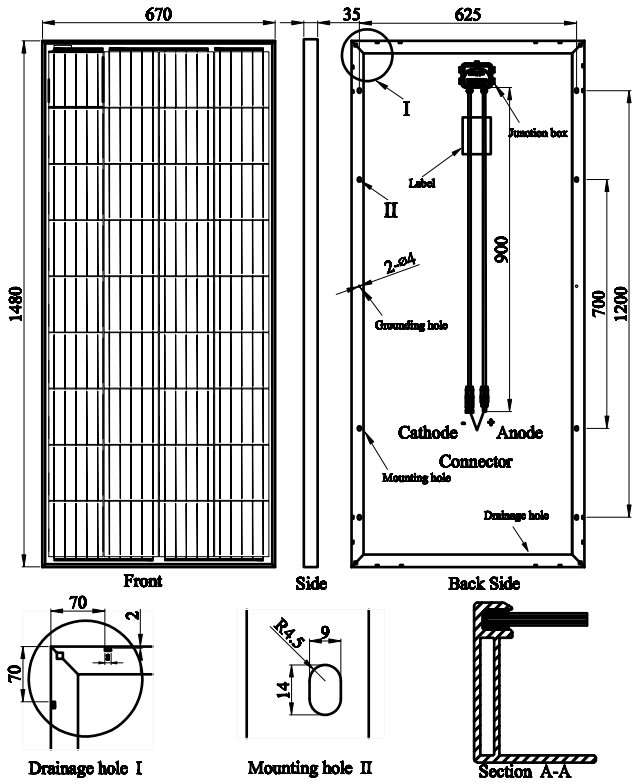
CE

CHUBB INSURANCE

TÜV

pv magazine 2018 top innovation — FOR INNOVATIVE SHADING RESISTANT MODULES DEVELOPMENT

DIMENSIONS



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