



Product catalogue



2021

Forefront of providing Solar
Tech solutions and
transforming businesses



2020

Top design 2020



2019

Inter Solar 2019
Photovoltaics award finalist.



2018

PV magazine 2018 Top
innovationaward.



2017

SNEC 2017 PV Power Expo
Top 10 Highlights award.

Inspiring green energy since 2003



Deutsche
Qualität
Garantiert

Born in Germany ●●●

AE Solar GmbH was founded by Dr. Alexander Maier and his brothers in Königsbrunn, Germany. AE Solar is one of the leading brands in the renewable energy industry, providing high-quality new energy products and services since 2003.

Driven by both innovations in technology and an effective brand strategy, AE Solar continuously extends the industry chain upstream and successfully executes the downstream projects.

AE Solar brand has become synonymous with high performing, top quality photovoltaic modules and specializes in PV technology innovation, application and system development. The company is a KEY COMPONENT SUPPLIER and PROJECT DEVELOPER. AE Solar's global sales and marketing network successfully provides end-users with accessible clean energy, whilst promoting its core brand values of STABILITY, DURABILITY and RELIABILITY.



■ Deutsche
■ Qualität
■ Garantiert



Leading in Manufacturing ●●●

AE Solar focuses on the manufacturing of leading edge technological products and selects only the highest quality materials and components. This, together with a world-leading automated manufacturing lines enable us to offer a high-quality products at competitive price. Our German engineers are engaged to supervise the production process, testing and ensure each product meets the highest world standards.

AE Solar has been awarded SNEC Top 10 Highlights 2017, PV Magazine Top Innovation 2018, Intersolar Award 2019 Finalist for Smart Shading Resistant Hot-Spot Free PV modules technology. We are the first company in the world manufacturing poly, mono, double glass modules with this technology.

The technology has been tested by leading PV experts - Fraunhofer CSP institute.

We manufacture in-house all kinds of conventional poly, mono, double glass and bi-facial PV modules. Our glass-glass technology is the lightest in the world using specially tempered 2 mm glasses with same wind and mechanical load capabilities as conventional 3 mm glasses providing min 25% less weight load at mounting systems and rooftops.



Deutsche
Qualität
Garantiert

AE SMART HOT SPOT FREE PV MODULES

tested by  **Fraunhofer**
CSP



Deutsche
Qualität
Garantiert

Core values



Since 2003 AE Solar provides superior services to the clients and we are proud that in 2017 we have reached the number 3000 in successful installation and commissioning of solar projects.

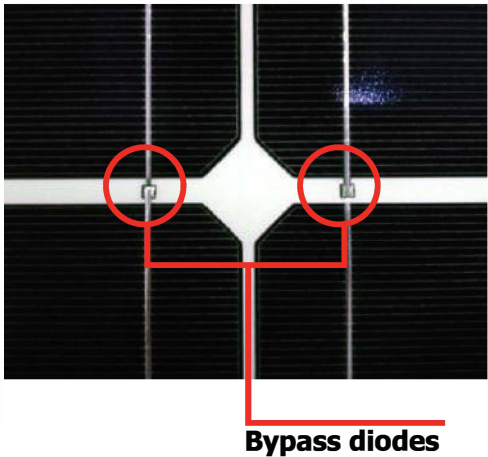
professional services and exceptional quality products are crucial to enhance customer satisfaction and loyalty, that is very important to strengthen the relationships, retain existing customers and attract new ones.



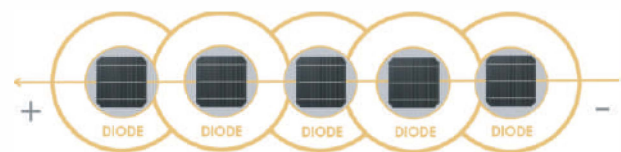
The Hot-Spot Free Modules developed by AE Solar use bypass diodes to eliminate the development of hot-spots and thus the damages and risks associated.

The temperature of Hot-Spot cells within AE Smart Hot-Spot Free Modules does not exceed 85°C. This temperature management eliminates material hazard, the safety of the module and its surroundings.

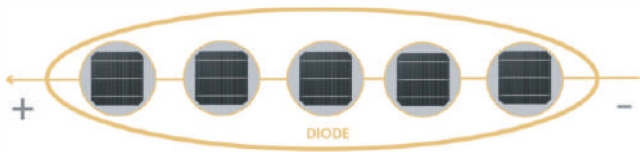
Available from 260W to 370W range, the AE Smart Hot-Spot Free Modules offer up to 30% more power output compared to standard PV Modules thanks to their improved efficiency.



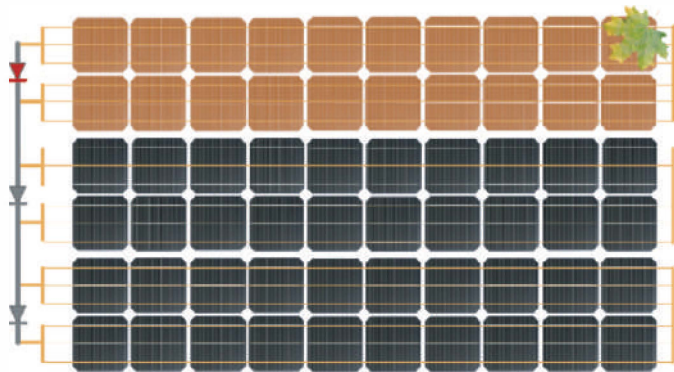
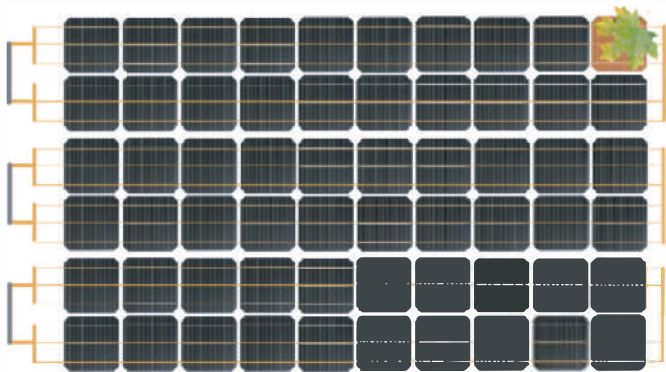
AE SMART HOT SPOT FREE MODULE



STANDARD MODULE



HOT-SPOT FREE technology protects each cell by an individual bypass diode.



In a standard module, the impact of shading on a single cell affects a whole string, while an AE SOLAR SMART MODULE with HOT-SPOT FREE technology loses the output of only one single cell during the shading.

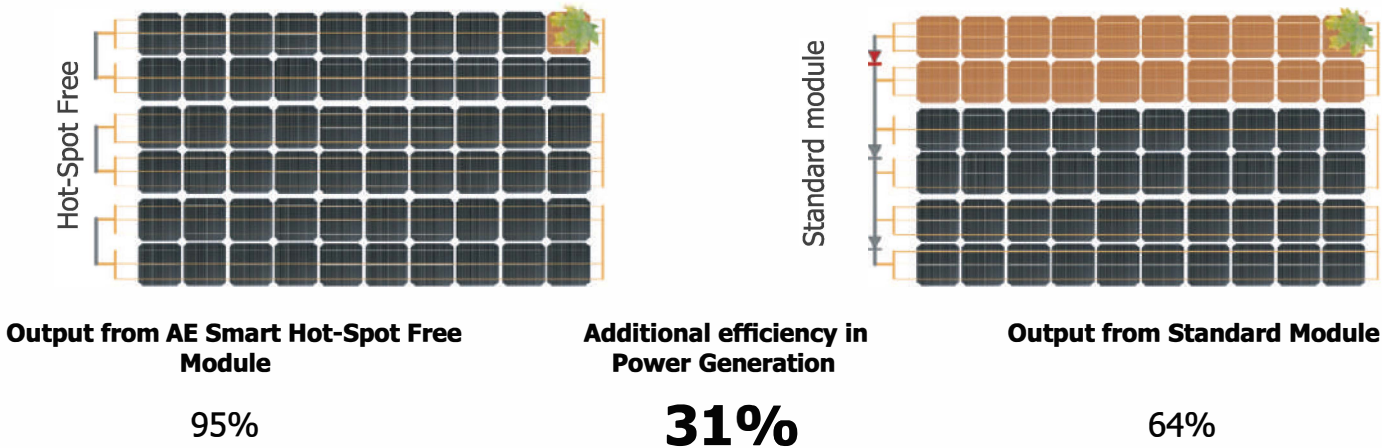
Shading In % of a single cell	0%	10%	20%	30%	40%	50%	100%
Output from AE Smart Hot-Spot Free Module	100%	98%	96%	96%	96%	96%	96%
Output from Standard Module	100%	98%	91%	83%	73%	65%	65%
Additional efficiency in Power Generation	0	0	5%	13%	23%	31%	31%



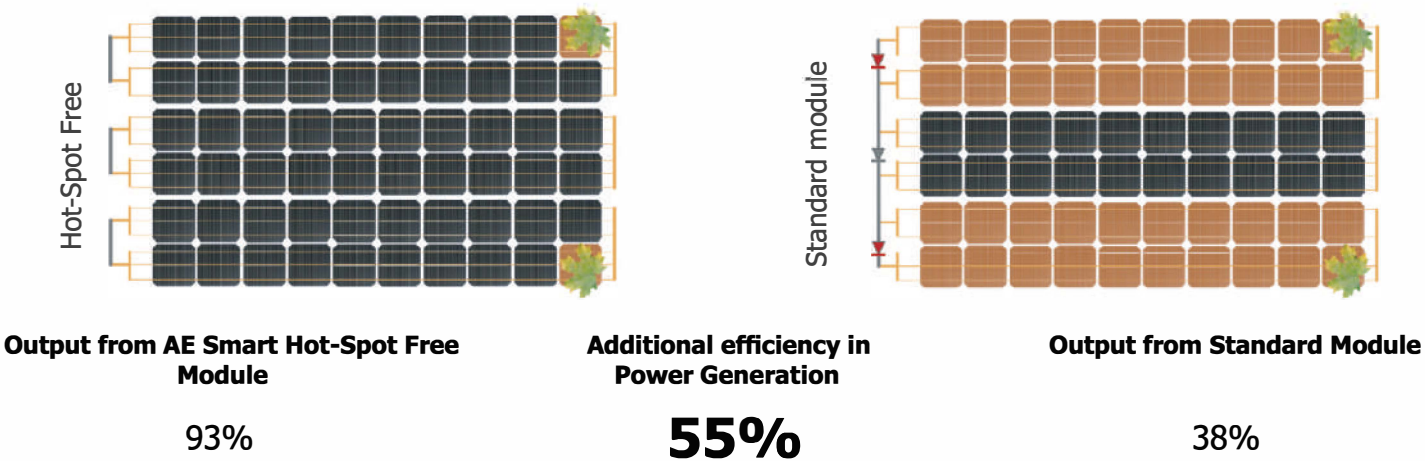
FOR INNOVATIVE
SHADING-RESISTANT
MODULES DEVELOPMENT



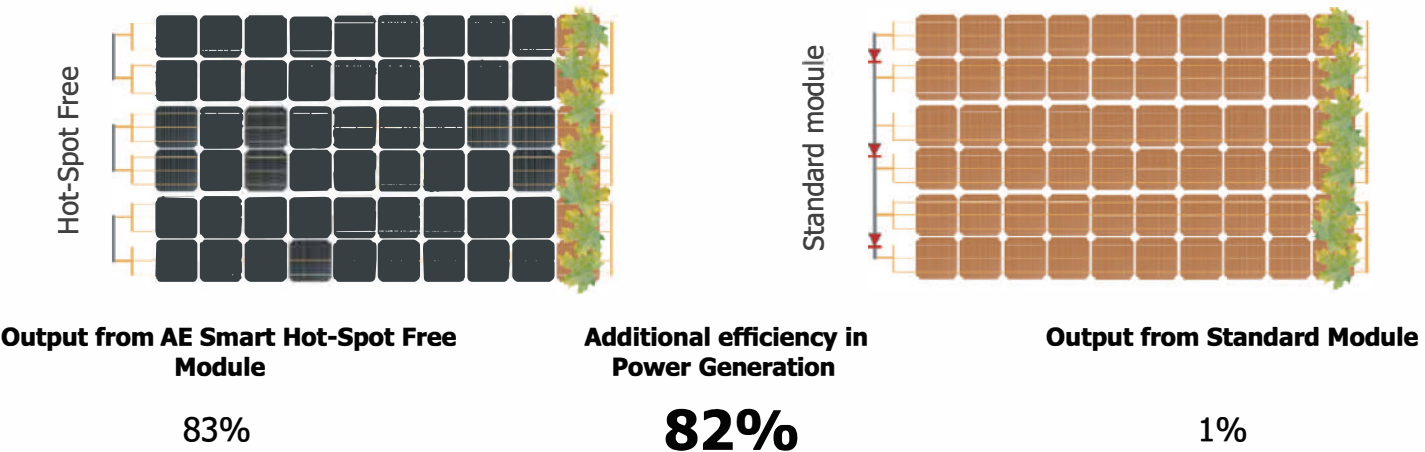
One Cell in One String



One Cell in Two Different Strings



Row of Cells Across Different Strings





Inspiring green-energy since 2003



PERC Technology LARGE CELL AE SMART HOT-SPOT FREE MONOCRYSTALLINE PV MODULES AE HM6-36 Series 190 W - 200 W

36
CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

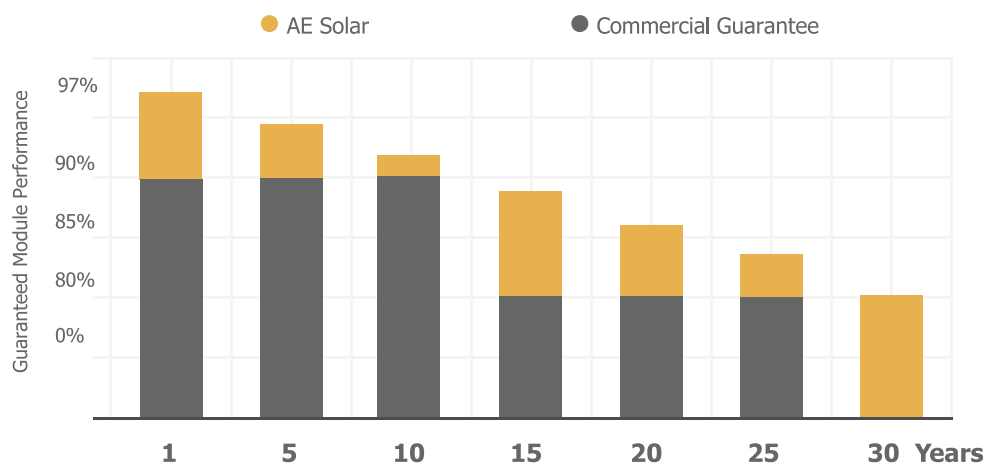
✓ **GERMAN QUALITY**
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

⌚ **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.

📄 **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 HM6-36 Series 190W - 200W

SPECIFICATIONS

		AE190HM6-36	AE195HM6-36	AE200HM6-36
Nominal Max. Power	P _{max} (Wp)	190	195	200
Maximum power voltage	V _{mp} (V)	19.92	20.33	20.75
Maximum power current	I _{mp} (A)	9.54	9.59	9.64
Open-circuit voltage	V _{oc} (V)	23.19	23.60	24.03
Short-circuit current	I _{sc} (A)	10.50	10.59	10.67
Module efficiency	(%)	18.26	18.74	19.22
Power tolerance	P _{max} (Wp)		0 / + 5	
Maximum system voltage DC	(V)		1000	
Maximum series fuse rating	(A)		15	
Operating temperature	(°C)		-40 to +85	
Temp. coefficients of P _{max}	(%/°C)		-0.37	
Temp. coefficients of V _{oc}	(%/°C)		-0.28	
Temp. coefficients of I _{sc}	(%/°C)		0.048	
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.

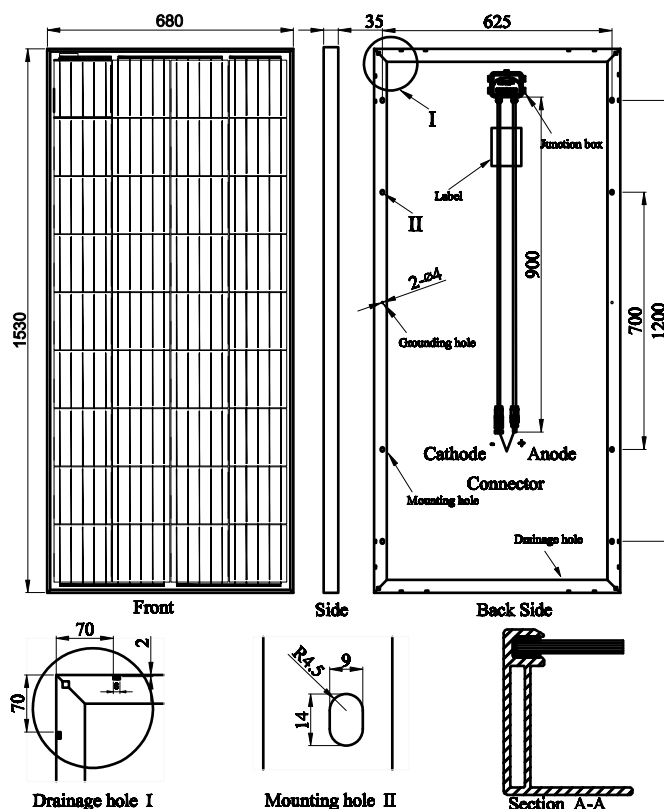
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	36 cells
Dimensions	1530 x 680 x35 mm
Weight	12.5 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 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	1260 pcs / 40HQ
Size / pallet (mm)	1725 X 1135 X 2400mm
Weight	1260 KG / double pallet

DIMENSIONS



CERTIFICATES



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Inspiring green-energy since 2003



PERC Technology
LARGE CELL
AE SMART HOT-SPOT FREE
MONOCRYSTALLINE PV MODULES
AE HM6-60 Series 305W-335W

60

CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

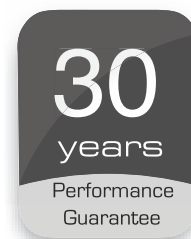
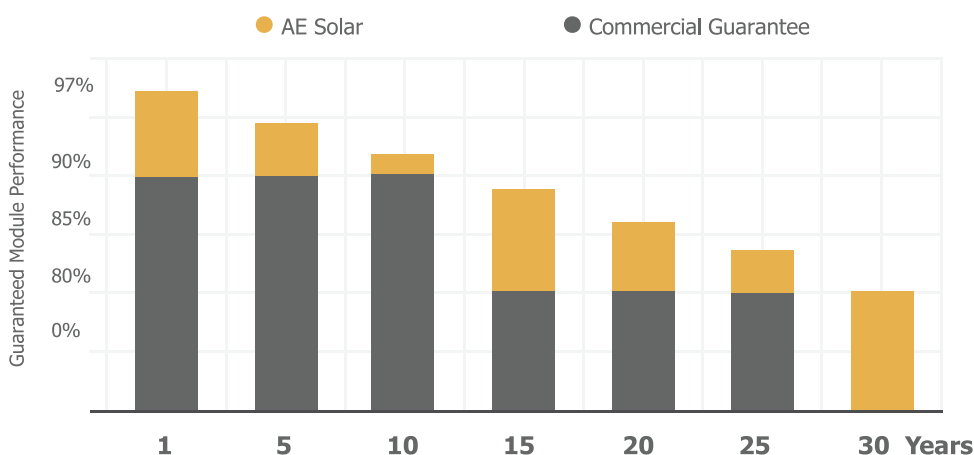
✓ GERMAN QUALITY
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+ PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

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OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-60 Series 305W-335W

SPECIFICATIONS

AE305HM6-60 AE310HM6-60 AE315HM6-60 AE320HM6-60 AE325HM6-60 AE330HM6-60 AE335HM6-60

Nominal Max. Power	P _{max} (Wp)	305	310	315	320	325	330	335
Maximum power voltage	V _{mp} (V)	32.80	33.00	33.20	33.40	33.61	33.81	34.02
Maximum power current	I _{mp} (A)	9.30	9.40	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	V _{oc} (V)	40.31	40.50	40.70	40.90	41.10	41.31	41.49
Short-circuit current	I _{sc} (A)	9.83	9.92	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.12	18.42	18.71	19.01	19.31	19.61	19.90
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1690 x 996 x 35 mm
Weight	19.0 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 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

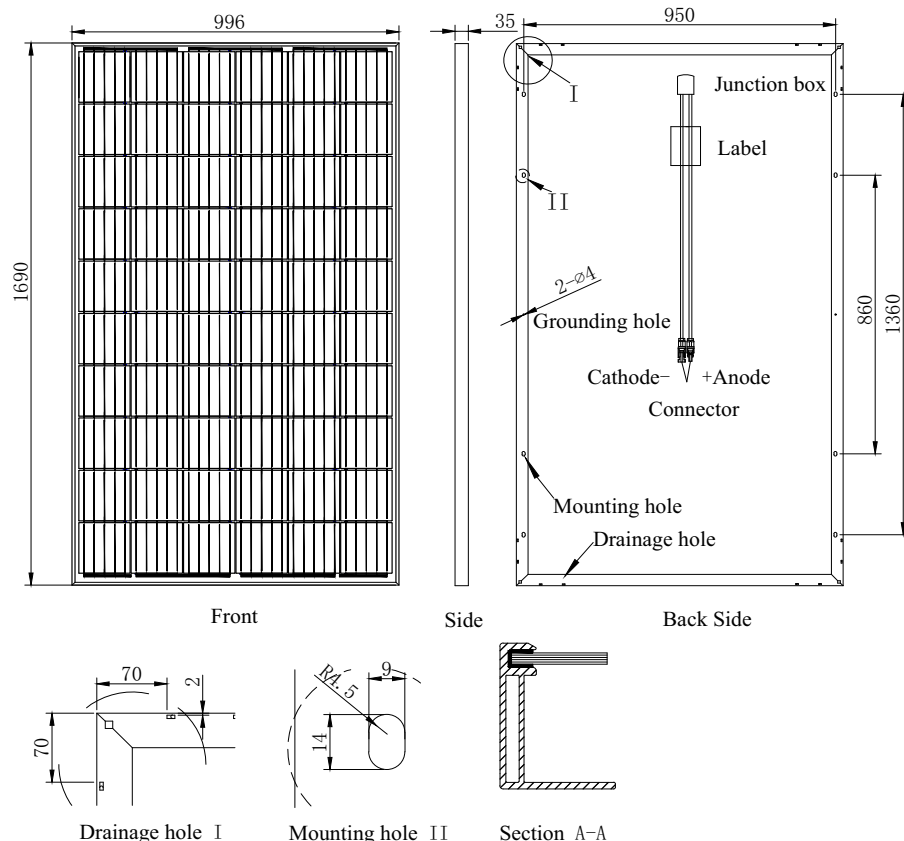
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	832 pcs / 40HQ
Size / pallet (mm)	1725 X 1135 X 2395mm
Weight	1315 kg / double pallet

CERTIFICATES



DIMENSIONS



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PERC Technology LARGE CELL AE SMART HOT-SPOT FREE MONOCRYSTALLINE PV MODULES AE HM6-72 Series 370W-400W

72

CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

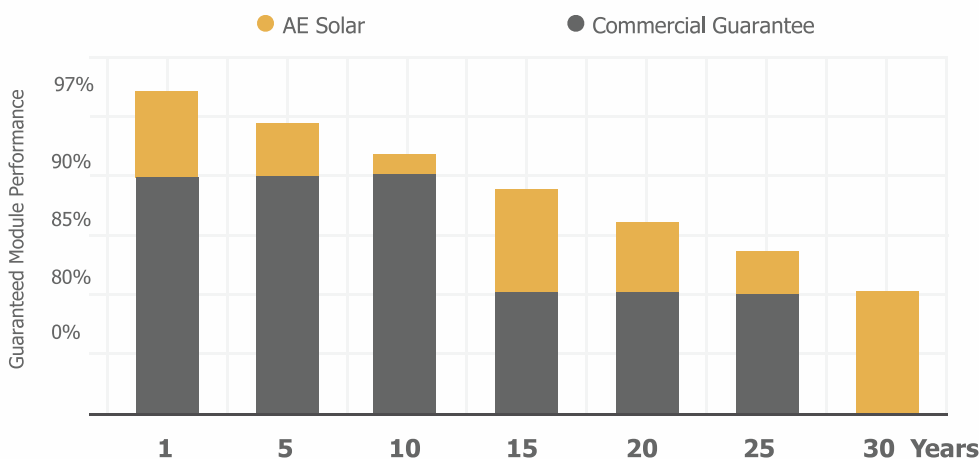
✓ GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

+ 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



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-72 Series 370W-400W

SPECIFICATIONS

AE370HM6-72 AE375HM6-72 AE380HM6-72 AE385HM6-72 AE390HM6-72 AE395HM6-72 AE400HM6-72

Nominal Max. Power	P _{max} (Wp)	370	375	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	39.90	40.20	40.50	40.80	41.10	41.40	41.71
Maximum power current	I _{mp} (A)	9.28	9.33	9.39	9.44	9.49	9.54	9.59
Open-circuit voltage	V _{oc} (V)	48.51	48.72	48.90	49.10	49.30	49.48	49.69
Short-circuit current	I _{sc} (A)	9.61	9.68	9.75	9.92	10.12	10.50	10.59
Module efficiency	(%)	18.39	18.64	18.89	19.14	19.38	19.63	19.88
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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 158.75 x 158.75mm
No. of cells	72 (6 x 12)
Dimensions	2020 X 996 X 35 mm
Weight	21.5 kg
Junction box	IP 67 rated
Output cable	1 x 4.0mm ² , 1200mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

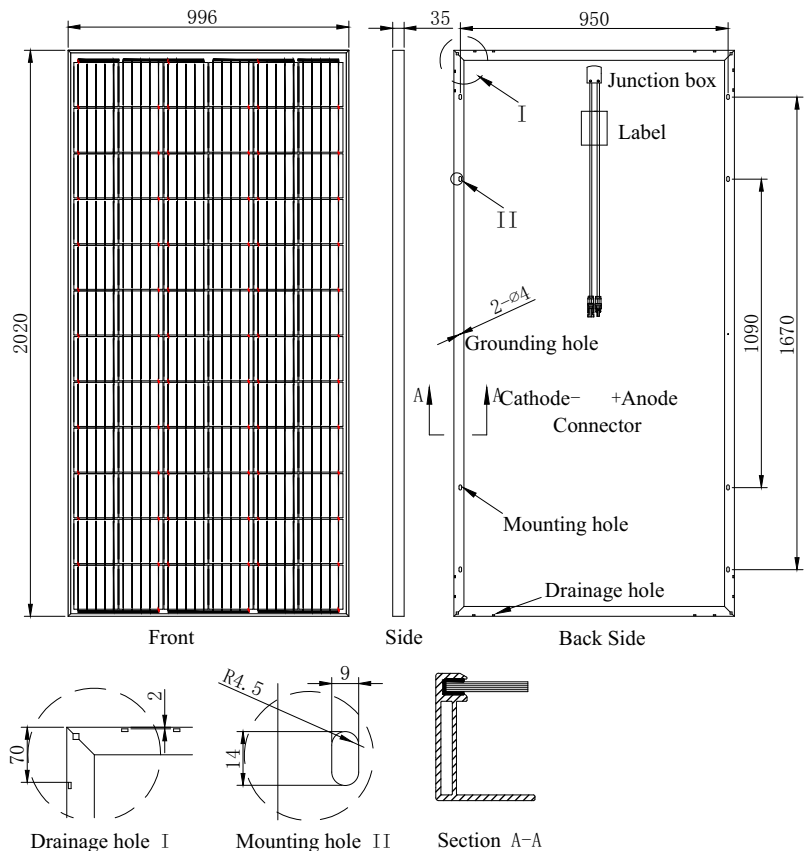
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2050x1120x2395mm
Weight	1495 kg / double pallet

CERTIFICATES



DIMENSIONS



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Inspiring green-energy since 2003



AE SMART HOT-SPOT FREE POLYCRYSTALLINE PV MODULES AE P6-36 Series 160W-175W

tested by **Fraunhofer**
CSP

36

CELLS



SHADING
RESISTANT



HOT SPOT
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

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.

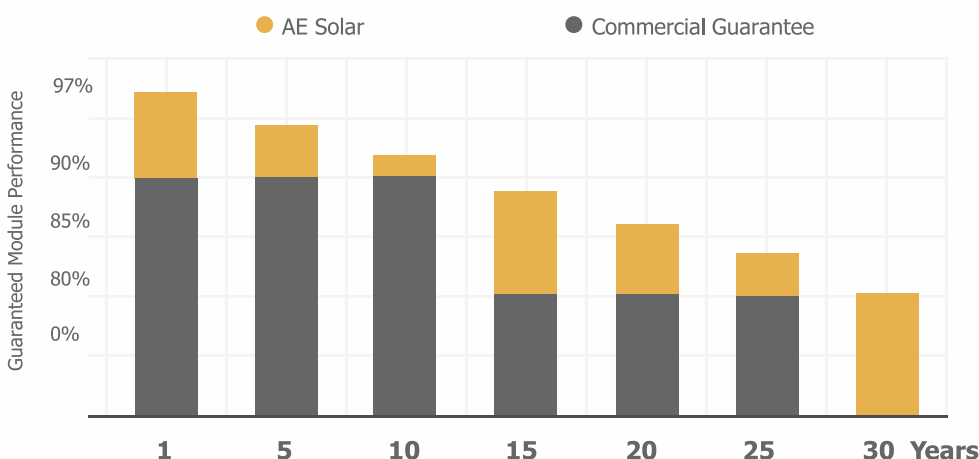
PLUS-SORTING

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



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE P6-36 Series 160W-175W

SPECIFICATIONS

		AE160P6-36	AE165P6-36	AE170P6-36	AE175P6-36
Nominal Max. Power	P _{max} (Wp)	160	165	170	175
Maximum power voltage	V _{mp} (V)	18.32	18.73	19.15	19.56
Maximum power current	I _{mp} (A)	8.73	8.81	8.88	8.95
Open-circuit voltage	V _{oc} (V)	22.90	23.10	23.31	23.52
Short-circuit current	I _{sc} (A)	9.31	9.35	9.42	9.48
Module efficiency	(%)	16.14	16.64	17.14	17.65
Power tolerance	P _{max} (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 P _{max}	(%/°C)	-0.40			
Temp. coefficients of V _{oc}	(%/°C)	-0.31			
Temp. coefficients of I _{sc}	(%/°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.

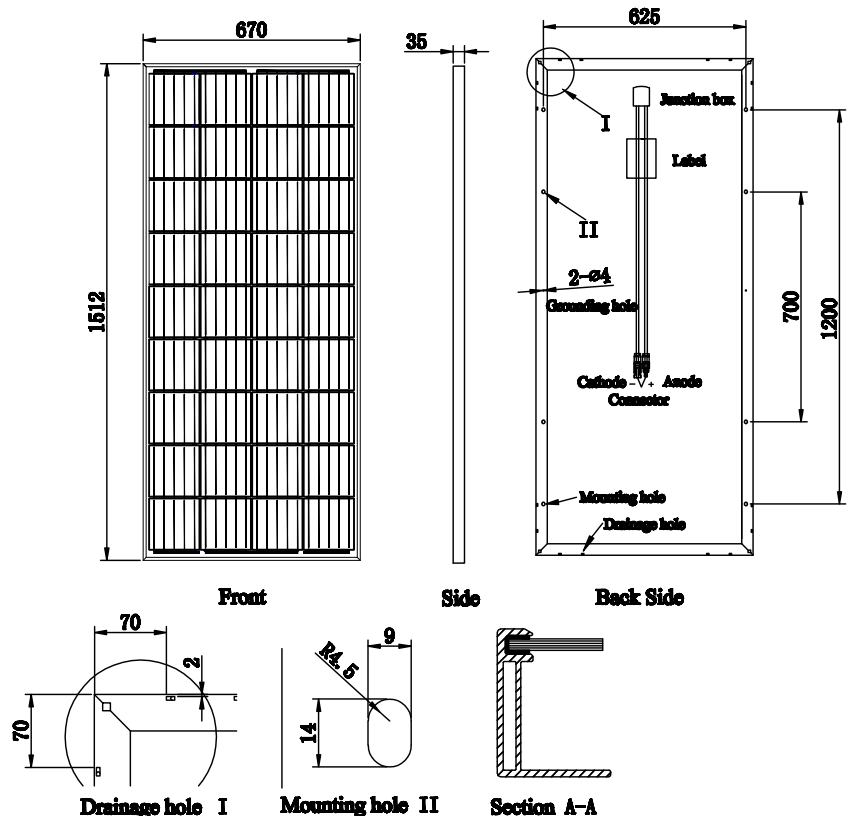
MATERIAL CHARACTERISTICS

Cell type	Poly-crystalline 156.75mm × 156.75mm
No. of cells	36 (4 × 9)
Dimensions	1512 x 670 x 35 mm
Weight	11.5 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 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)	1540 x 1135 x 2370
Weight	1170 kg / double pallet

DIMENSIONS



CERTIFICATES



FOR INNOVATIVE
SHADING RESISTANT
MODULES DEVELOPMENT

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AE SMART HOT-SPOT FREE POLYCRYSTALLINE PV MODULES AE P6-60 Series 270W-290W

tested by **Fraunhofer**
CSP

60

CELLS



SHADING
RESISTANT



HOT SPOT
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



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

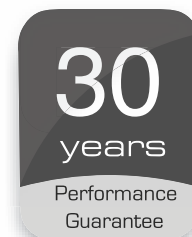
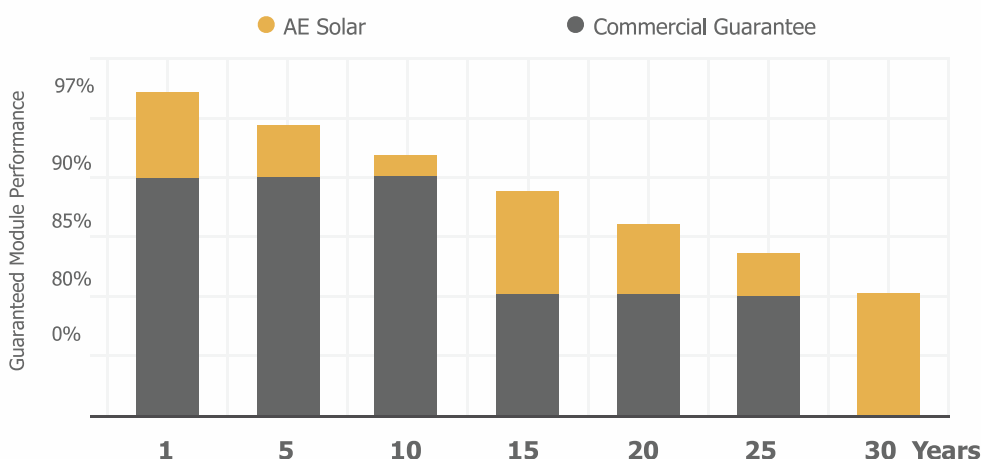
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.



CERTIFICATES

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OUR PERFORMANCE GUARANTEE



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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)	30.82	31.24	31.65	32.07	32.48
Maximum power current	Imp (A)	8.76	8.80	8.85	8.89	8.93
Open-circuit voltage	Voc(V)	38.31	38.52	38.72	38.93	39.14
Short-circuit current	Isc (A)	9.31	9.35	9.38	9.44	9.47
Module efficiency	(%)	16.26	16.56	16.86	17.16	17.46
Power tolerance	Pmax (Wp)	0 / + 5				
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)	-0.313				
Temp. coefficients of Isc	(%/°C)	0.05				
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.

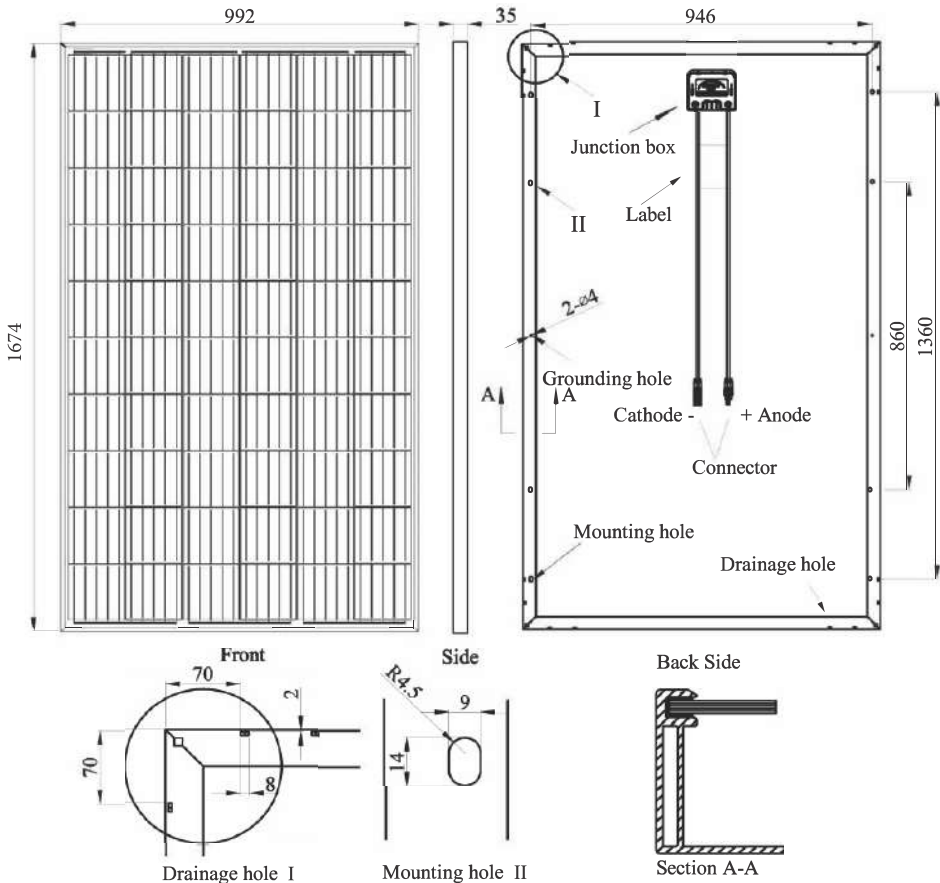
MATERIAL CHARACTERISTICS

Cell type	Poly-crystalline 156.75mm × 156.75mm
No. of cells	60 (6 × 10)
Dimensions	1674 x 992 x 35mm
Weight	18 kg
Junction box	IP 67 rated
Output cable	1 x 4.0mm², 900mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m²
Mechanik	5400 Pa / 550 kg/m²

PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1695 X 1135 X 2390
Weight	1250 kg /double pallet

DIMENSIONS



CERTIFICATES



FOR INNOVATIVE
SHADING RESISTANT
MODULES DEVELOPMENT

AES-DSH2019 V.002
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Inspiring green-energy since 2003



AE SMART HOT-SPOT FREE POLYCRYSTALLINE PV MODULES AE P6-72 Series 320W-345W

tested by **Fraunhofer**
CSP

72

CELLS



SHADING
RESISTANT



HOT SPOT
RESISTANT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT

NH_3
S

AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

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.

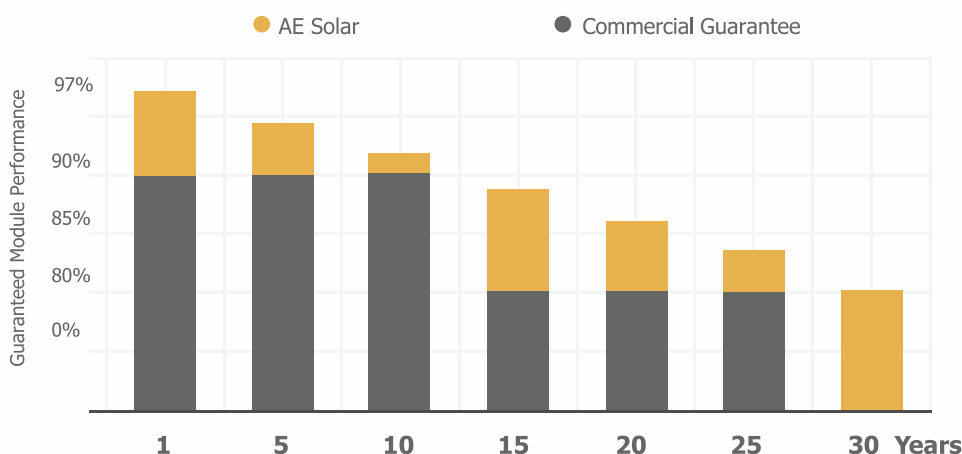
PLUS-SORTING

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



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE P6-72 Series 320W-345W

SPECIFICATIONS

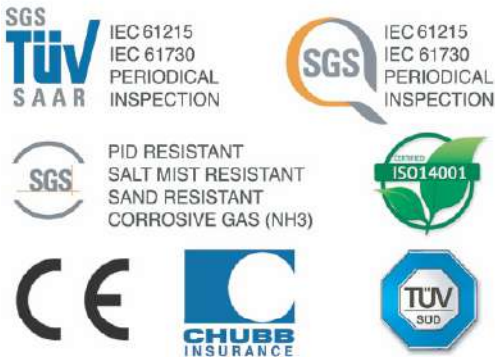
		AE320P6-72	AE325P6-72	AE330P6-72	AE335P6-72	AE340P6-72	AE345P6-72
Nominal Max. Power	Pmax (Wp)	320	325	330	335	340	345
Maximum power voltage	Vmp(V)	36.75	36.83	36.97	37.05	37.09	37.18
Maximum power current	Imp (A)	8.71	8.82	8.93	9.04	9.17	9.28
Open-circuit voltage	Voc(V)	45.72	45.83	45.89	45.93	45.97	47.26
Short-circuit current	Isc (A)	9.28	9.33	9.37	9.41	9.44	9.48
Module efficiency	(%)	16.13	16.38	16.63	16.98	17.14	17.39
Power tolerance	Pmax (Wp)	0 / + 5					
Maximum system voltage DC	(V)	1000					
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	Poly-crystalline 156.75mm × 156.75mm
No. of cells	72 (6 x 12)
Dimensions	2000 x 992 x 35mm
Weight	21 kg
Junction box	IP 67 rated
Output cable	1 x 4.0mm ² , 1200mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

CERTIFICATES



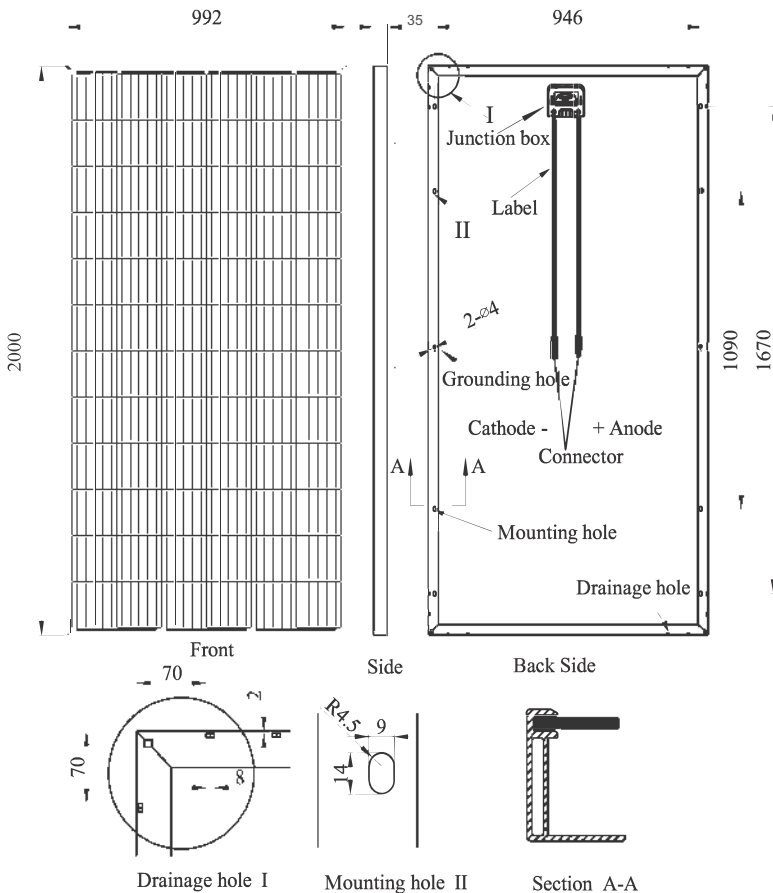
FOR INNOVATIVE
SHADING RESISTANT
MODULES DEVELOPMENT

AES-DSH2019 V.002
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PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2035 X 1120 X 2390
Weight	1464 kg /double pallet

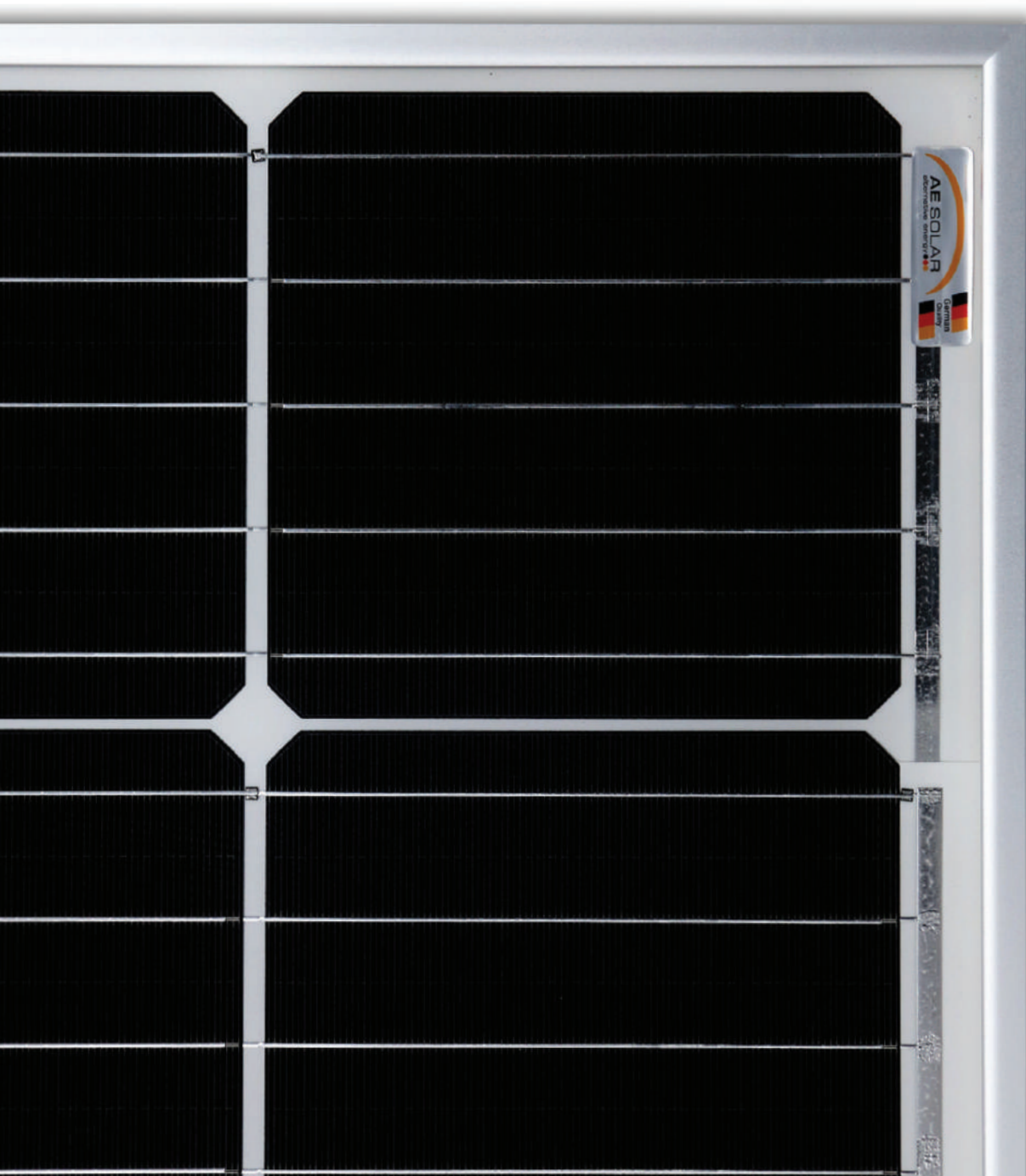
DIMENSIONS



Core values

Durability ●●●

AE Solar commits to providing only the best quality for customers. Therefore, 100% testing ratio for visual inspection, EL testing, pressure testing, mechanical load testing and age testing ensure that AE Solar photovoltaic modules operate safely and smoothly for at least 30 years with the product warranty of 12 years. Hence, guaranteeing a strong and stable return on investment for investors.





AE SHINGLED PV MODULES

PERC TECHNOLOGY



Deutsche
Qualität
Garantiert



Inspiring green-energy since 2003



PERC TECHNOLOGY AE SHINGLED MONOCRYSTALLINE PV MODULES AE M6 Series 380W-400W

60
CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



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.



CRACK RESISTANT

Avoids micro-cracks introduced during conventional stringing process;
Capable of withstanding heavy loads;
Suitable for applications in harsh Environments



AESTHETICALLY PLEASING

Uniform cell layout and symmetric module Design



HIGH EFFICIENCY

High efficiency and class leading quality



SYSTEM COST REDUCED

10% of Reduction in BOS and Installation cost



HIGH OUTPUT

15%+more output comparing to conventional technology



COMPATIBILITY

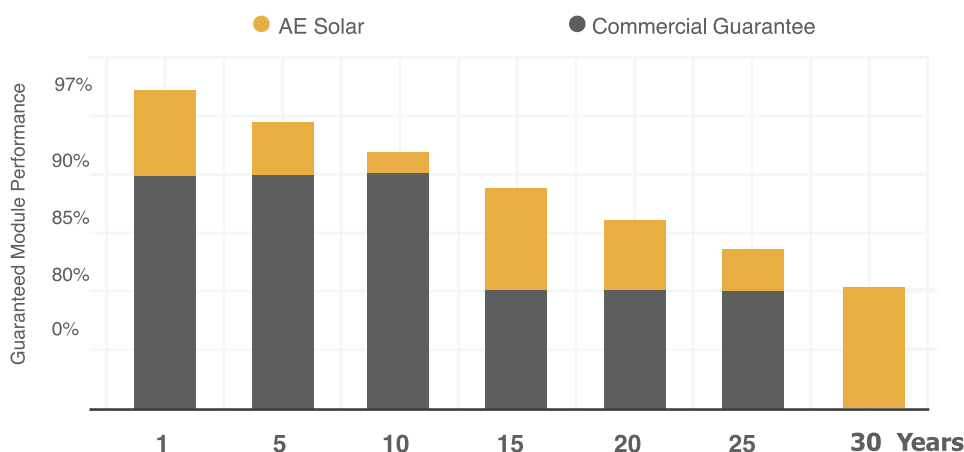
PERC Compatible, SHJ mainstream with high efficient cell technologies



GERMAN QUALITY

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

OUR PERFORMANCE GUARANTEE



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6 Series 380W - 400W

SPECIFICATIONS

		AE-380W-M6	AE-M6-385W	AE-M6-390W	AE-M6-395W	AE-M6-400W
Nominal Max. Power	P _{max} (Wp)	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	40.6	40.8	40.8	40.9	41.0
Maximum power current	I _{mp} (A)	9.39	9.44	9.56	9.66	9.76
Open-circuit voltage	V _{oc} (V)	49.1	49.3	49.3	49.4	49.6
Short-circuit current	I _{sc} (A)	9.93	9.98	10.03	10.07	10.12
Module efficiency	(%)	20.3	20.5	20.8	21.1	21.3
Power tolerance	P _{max} (Wp)	0 / + 4.99				
Maximum system voltage DC	V _{DC} (IEC)	1500				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of P _{max}	(%/°C)	-0.34				
Temp. coefficients of V _{oc}	(%/°C)	-0.27				
Temp. coefficients of I _{sc}	(%/°C)	0.04				
Nom. Operating cell temp.(NOCT)	(°C)	42.3±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.

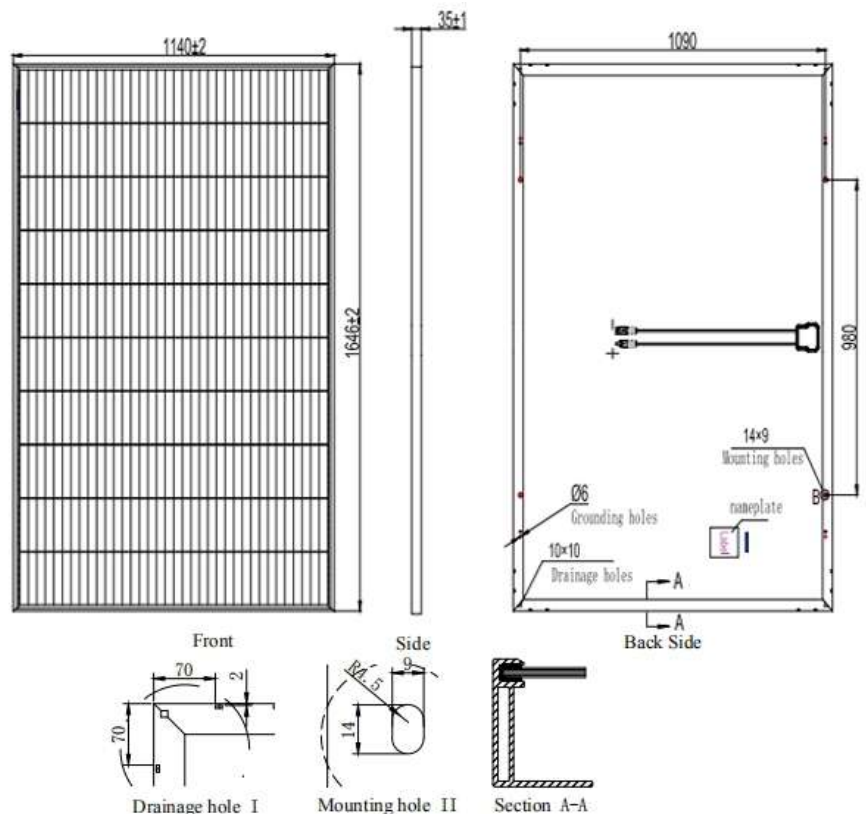
MATERIAL CHARACTERISTICS

Cell type	PERC Mono-crystalline 158.75 x 158.75mm
Dimensions	1646 X 1140 X 35 mm
Weight	20.5 kg
Junction box	15A;TUV&UL; IP67
Output cable	1000mm/4mm ²
Connector type	compatibility MC 4
Hail resistance	Diameter of 1m. 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	62pcs / double pallet
Loading Capacity	868pcs / 40HQ
Size / pallet (mm)	1685 x 1135 x 2490
Weight	1370 kg / double pallet

DIMENSIONS



CERTIFICATES



AE-DSH2019 V.002

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PERC TECHNOLOGY AE SHINGLED MONOCRYSTALLINE PV MODULES AE M6 Series 450W-475W

- 72 CELLS
- PID RESISTANT
- SALT CORROSION RESISTANT
- SAND RESISTANT
- AMMONIA RESISTANT
- HIGHLY STABLE AND TOUGH



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.



AESTHETICALLY PLEASING

Uniform cell layout and symmetric module Design



SYSTEM COST REDUCED

10% of Reduction in BOS and Installation cost



COMPATIBILITY

PERC Compatible, SHJ mainstream with high efficient cell technologies



CRACK RESISTANT

Avoids micro-cracks introduced during conventional stringing process;
Capable of withstanding heavy loads;
Suitable for applications in harsh Environments



HIGH EFFICIENCY

High efficiency and class leading quality



HIGH OUTPUT

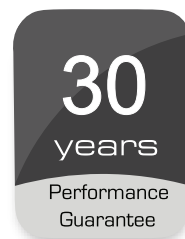
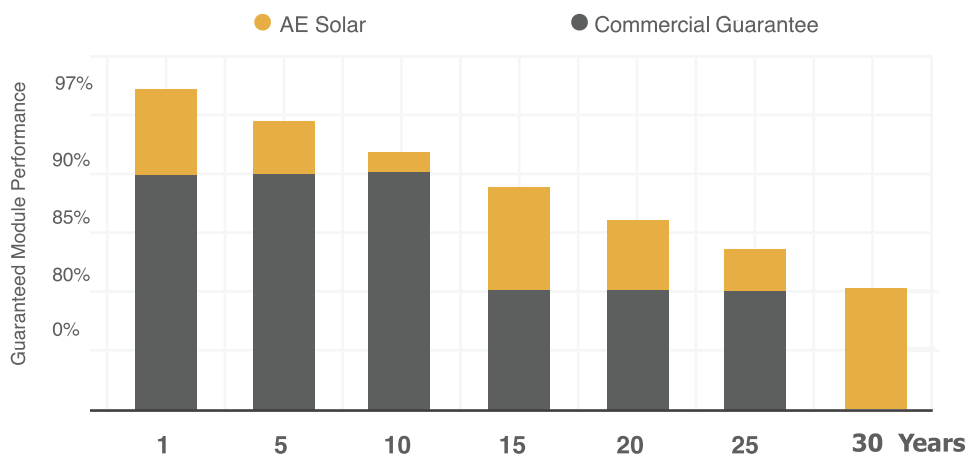
15%+more output comparing to conventional technology



GERMAN QUALITY

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

OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6 Series 450W - 475W

SPECIFICATIONS

AE-M6-450W AE-M6-455W AE-M6-460W AE-M6-465W AE-M6-470W AE-M6-475W

Nominal Max. Power	P _{max} (Wp)	450	455	460	465	470	475
Maximum power voltage	V _{mp} (V)	40.3	40.5	40.7	40.9	40.9	41.0
Maximum power current	I _{mp} (A)	11.17	11.23	11.30	11.37	11.49	11.59
Open-circuit voltage	V _{oc} (V)	48.8	49.0	49.2	49.4	49.4	49.5
Short-circuit current	I _{sc} (A)	11.90	11.95	11.99	12.03	12.07	12.12
Module efficiency	(%)	20.0	20.3	20.5	20.7	20.9	21.2
Power tolerance	P _{max} (Wp)	0 / + 4.99					
Maximum system voltage DC	V _{DC} (IEC)	1500					
Operating temperature	(°C)	-40 to +85					
Temp. coefficients of P _{max}	(%/°C)	-0.34					
Temp. coefficients of V _{oc}	(%/°C)	-0.27					
Temp. coefficients of I _{sc}	(%/°C)	0.04					
Nom. Operating cell temp.(NOCT)	(°C)	42.3±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.

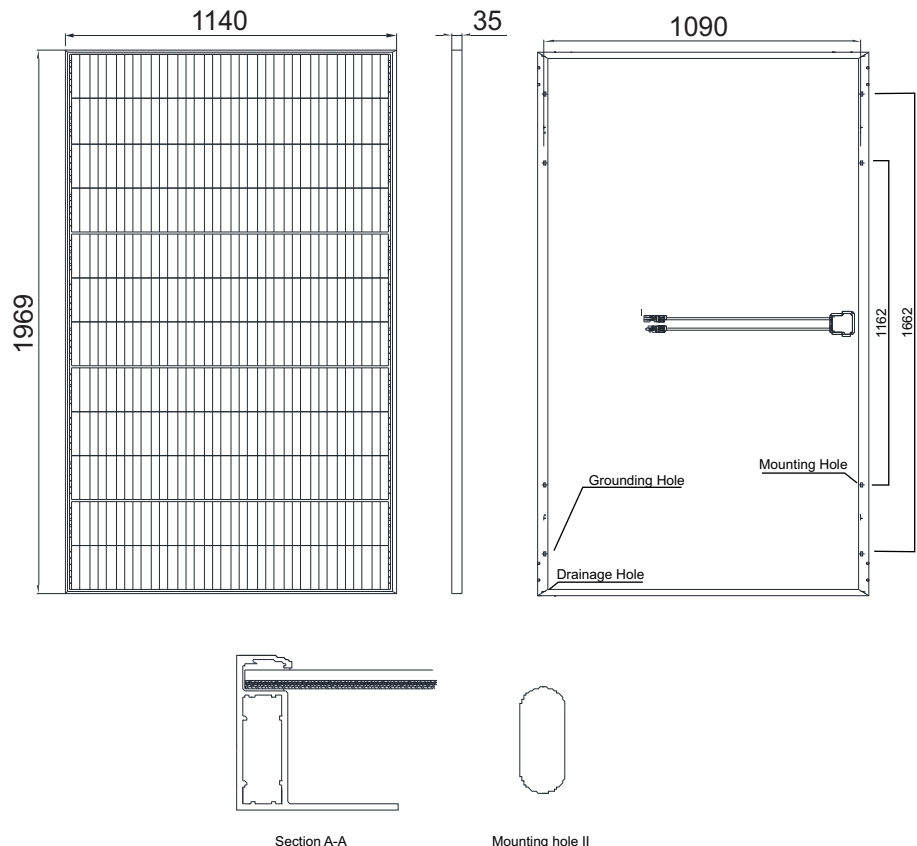
MATERIAL CHARACTERISTICS

Cell type	PERC Mono-crystalline 158.75 x 158.75mm
Dimensions	1969 X 1140 X 35 mm
Weight	24.5 kg
Junction box	15A; TUV&UL; IP67
Output cable	1000mm/4mm ²
Connector type	compatibility MC 4
Hail resistance	Diameter of 1m. 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	62 pcs / double pallet
Loading Capacity	682pcs / 40HQ
Size / pallet (mm)	2000 X 1135 X 2490
Weight	1640 kg / double pallet

DIMENSIONS



CERTIFICATES



AES-DSH2019 V.002

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PERC TECHNOLOGY MONOCRYSTALLINE PV MODULES AE M6 Series 635 W-655 W

72
CELLS



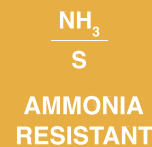
PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



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.



CRACK RESISTANT

Avoids micro-cracks introduced during conventional stringing process;
Capable of withstanding heavy loads;
Suitable for applications in harsh Environments



AESTHETICALLY PLEASING

Uniform cell layout and symmetric module Design



HIGH EFFICIENCY

High efficiency and class leading quality



SYSTEM COST REDUCED

10% of Reduction in BOS and Installation cost



HIGH OUTPUT

15%+more output comparing to conventional technology



COMPATIBILITY

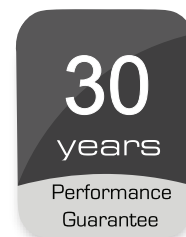
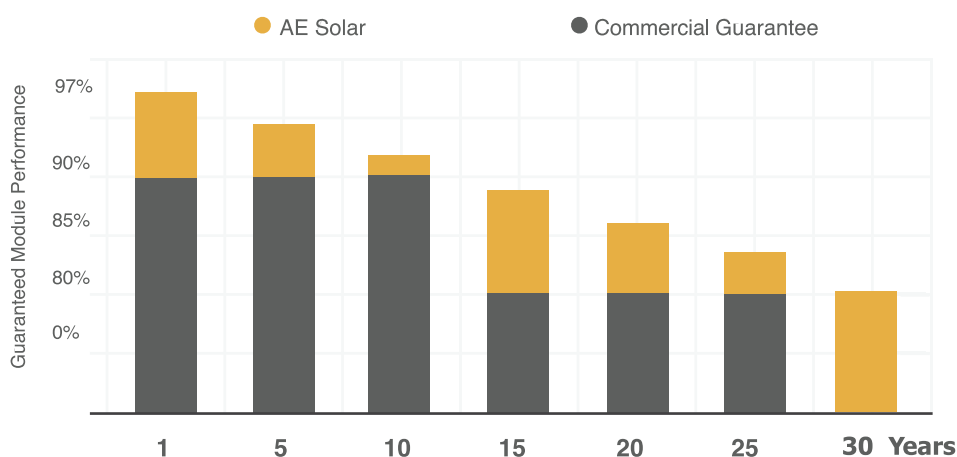
PERC Compatible, SHJ mainstream with high efficient cell technologies



GERMAN QUALITY

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

OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6 Series 635W - 655W

SPECIFICATIONS

		AE-M6-635W	AE-M6-640W	AE-M6-645W	AE-M6-650W	AE-M6-655W
Nominal Max. Power	P _{max} (Wp)	635	640	645	650	655
Maximum power voltage	V _{mp} (V)	37.3	37.4	37.5	37.6	37.7
Maximum power current	I _{mp} (A)	17.02	17.11	17.20	17.29	17.37
Open-circuit voltage	V _{oc} (V)	45.8	45.9	46.0	46.1	46.2
Short-circuit current	I _{sc} (A)	18.12	18.03	17.94	17.85	17.76
Module efficiency	(%)	20.7	20.9	21.0	21.2	21.3
Power tolerance	P _{max} (Wp)	0 / + 4.99				
Maximum system voltage DC	V _{DC} (IEC)	1500				
Maximum fuse rating	(A)	30				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of P _{max}	(%/°C)	-0.36				
Temp. coefficients of V _{oc}	(%/°C)	-0.28				
Temp. coefficients of I _{sc}	(%/°C)	0.04				
Nom. Operating cell temp.(NOCT)	(°C)	42.3±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.

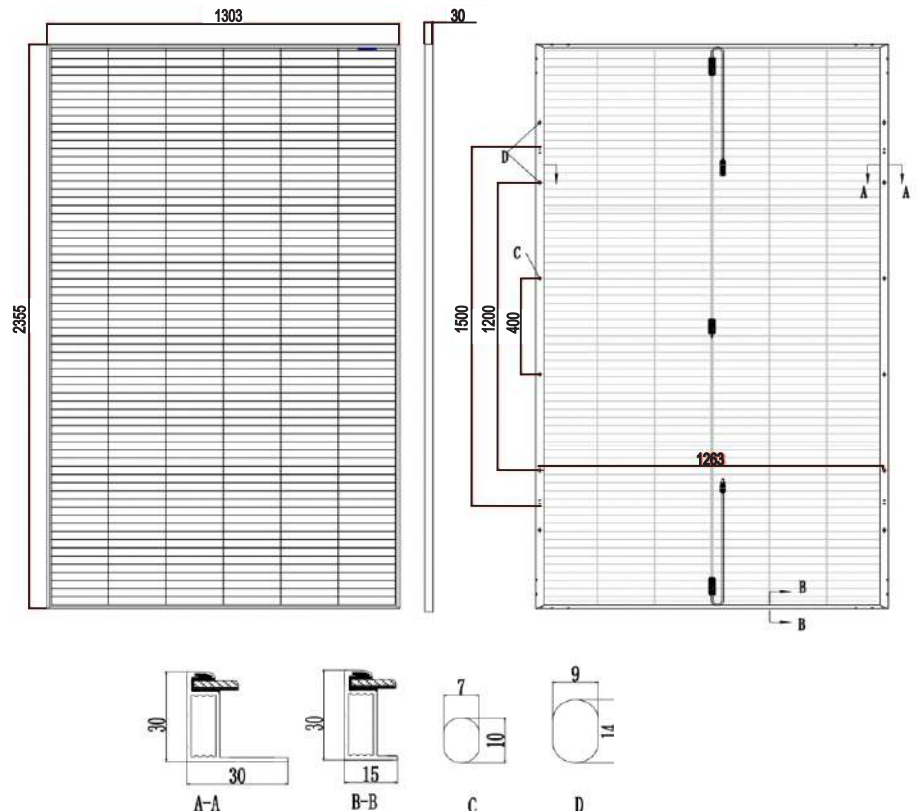
MATERIAL CHARACTERISTICS

Cell type	PERC Mono-crystalline 210 x 210 mm
Dimensions	2355 X 1303 X 30 mm
Weight	38 kg
Junction box	TUV&UL; IP67
Output cable	800 mm/4mm ²
Connector type	compatibility MC 4
Hail resistance	Diameter of 1m. 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	62 pcs / double pallet
Loading Capacity	868 pcs / 40HQ
Size / pallet (mm)	2355 X 1310 X 2490

DIMENSIONS



CERTIFICATES



Precisely Right.

AES-DSH2019 V.002

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TOTAL ANNUAL CAPACITY

**2.5
GW**



**Deutsche
Qualität
Garantiert**



AE POWERPLUS LARGE PV MODULES



Deutsche
Qualität
Garantiert



Inspiring green-energy since 2003



PERC Technology
AE LARGE CELL
MONOCRYSTALLINE PV MODULES
AE HM6-60 Series 305W-335W

60
CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

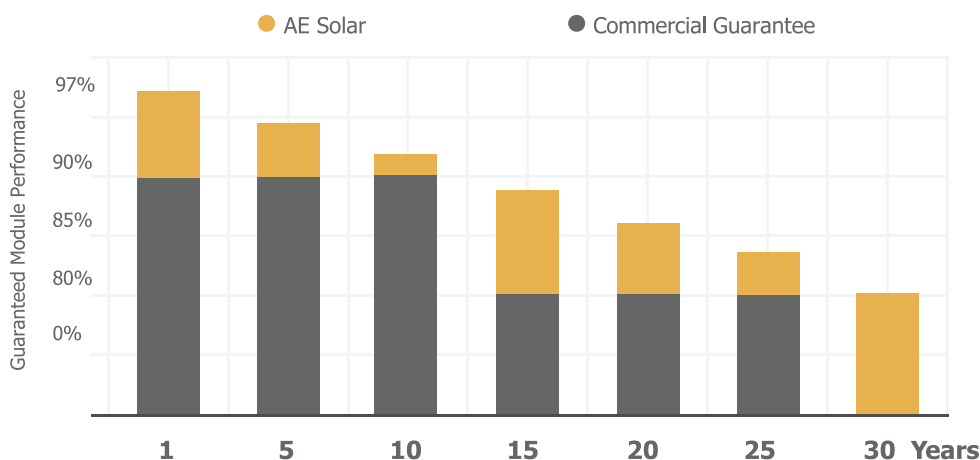
✓ **GERMAN QUALITY**
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

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

🕒 **PERFORMANCE GUARANTEE**
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📄 **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 HM6-60 Series 305W-335W

SPECIFICATIONS

AE305HM6-60 AE310HM6-60 AE315HM6-60 AE320HM6-60 AE325HM6-60 AE330HM6-60 AE335HM6-60

Nominal Max. Power	P _{max} (Wp)	305	310	315	320	325	330	335
Maximum power voltage	V _{mp} (V)	32.80	33.00	33.20	33.40	33.61	33.81	34.02
Maximum power current	I _{mp} (A)	9.30	9.40	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	V _{oc} (V)	40.31	40.50	40.70	40.90	41.10	41.31	41.49
Short-circuit current	I _{sc} (A)	9.83	9.92	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.39	18.69	18.99	19.30	19.60	19.90	20.20
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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.

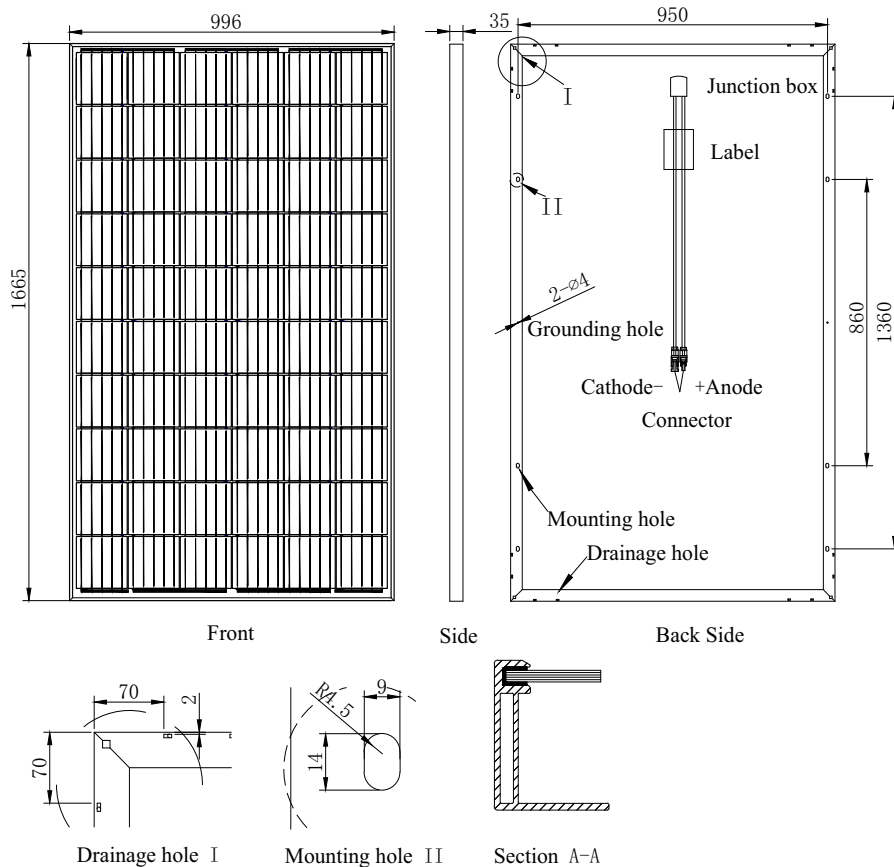
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1665 x 996 x 35 MM
Weight	18.5 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 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	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1695 X 1135 X 2395mm
Weight	1283 KG / double pallet

DIMENSIONS



CERTIFICATES



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PERC Technology AE LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6-72 Series 370W-400W

72
CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

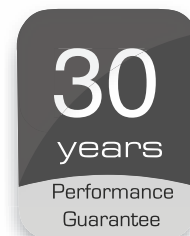
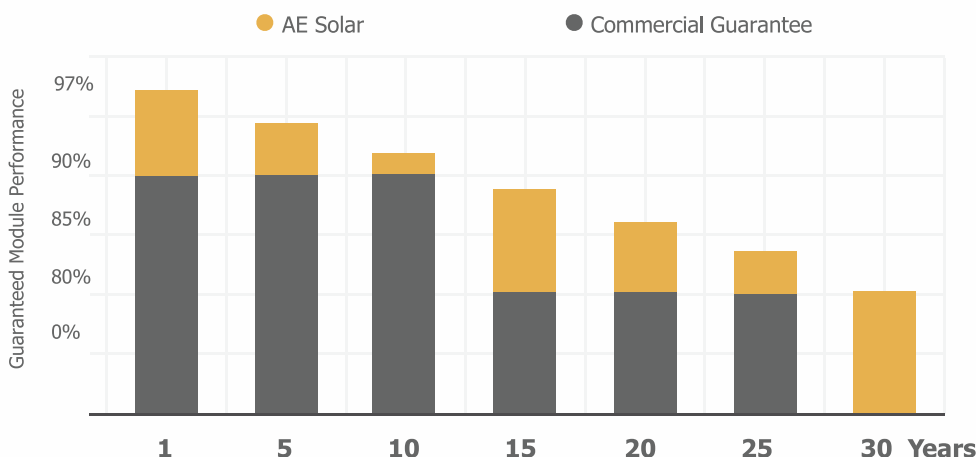
✓ GERMAN QUALITY
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+ PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

⌚ PERFORMANCE GUARANTEE
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📄 CERTIFICATES
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OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

SPECIFICATIONS

AE HM6-72 Series 370W-400W

AE370HM6-72 AE375HM6-72 AE380HM6-72 AE385HM6-72 AE390HM6-72 AE395HM6-72 AE400HM6-72

Nominal Max. Power	P _{max} (Wp)	370	375	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	39.90	40.20	40.50	40.80	41.10	41.40	41.71
Maximum power current	I _{mp} (A)	9.28	9.33	9.39	9.44	9.49	9.54	9.59
Open-circuit voltage	V _{oc} (V)	48.51	48.72	48.90	49.10	49.30	49.48	49.69
Short-circuit current	I _{sc} (A)	9.61	9.68	9.75	9.92	10.12	10.50	10.59
Module efficiency	(%)	18.77	19.08	19.28	19.53	19.79	20.04	20.29
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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 158.75 x 158.75mm
No. of cells	72 (6 x 12)
Dimensions	1979 X 996 X 35 mm
Weight	21 KG
Junction box	IP 67 rated
Output cable	1 x 4.0mm², 1200mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m²
Mechanical load	5400 Pa / 550 kg/m²

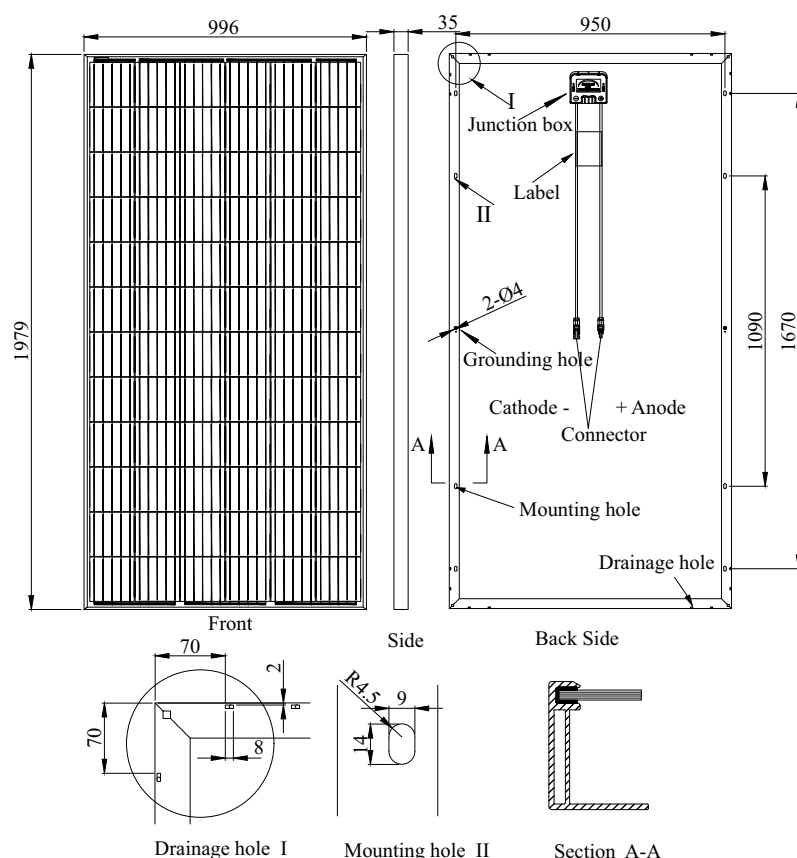
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2015x1120x2395mm
Weight	1464 KG / double pallet

CERTIFICATES



DIMENSIONS



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Inspiring green-energy since 2003



PERC Technology

AE LARGE CELL FULL BLACK

MONOCRYSTALLINE PV MODULES

AE HM6-60 Series 305W-335W

60

CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

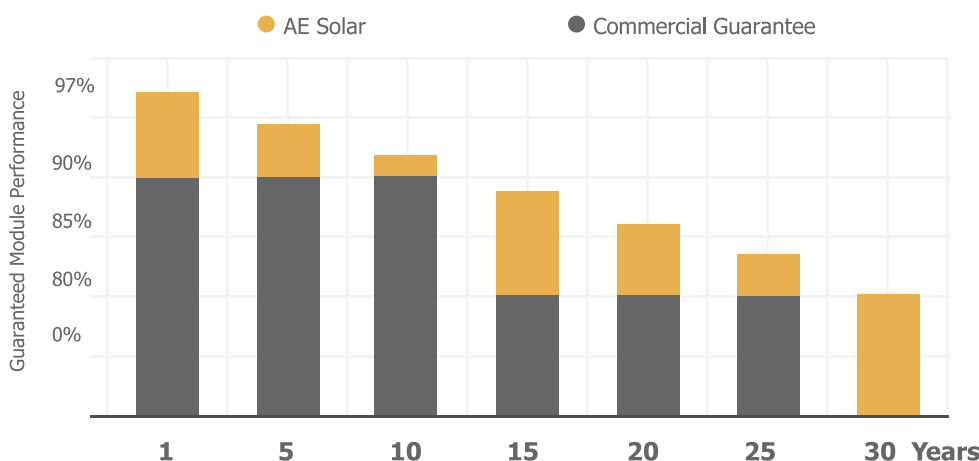
✓ GERMAN QUALITY
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

+ 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



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-60 Series 305W-335W

SPECIFICATIONS

AE305HM6-60 AE310HM6-60 AE315HM6-60 AE320HM6-60 AE325HM6-60 AE330HM6-60 AE335HM6-60

Nominal Max. Power	P _{max} (Wp)	305	310	315	320	325	330	335
Maximum power voltage	V _{mp} (V)	32.80	33.00	33.20	33.40	33.61	33.81	34.02
Maximum power current	I _{mp} (A)	9.30	9.40	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	V _{oc} (V)	40.31	40.50	40.70	40.90	41.10	41.31	41.49
Short-circuit current	I _{sc} (A)	9.83	9.92	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.39	18.69	18.99	19.30	19.60	19.90	20.20
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1665 x 996 x 35 MM
Weight	18.5 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 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

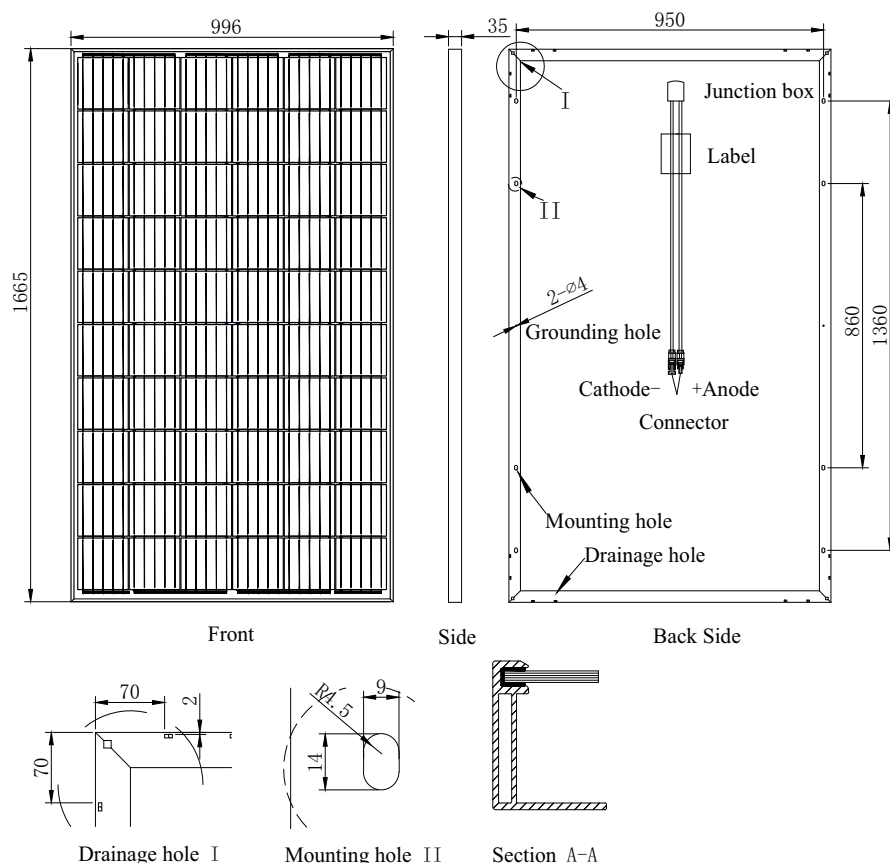
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1695 X 1135 X 2395mm
Weight	1283 KG / double pallet

CERTIFICATES



DIMENSIONS



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Inspiring green-energy since 2003



PERC Technology

AE LARGE CELL FULL BLACK MONOCRYSTALLINE PV MODULES

AE HM6-72 Series 370W-400W

72
CELLS



PID
RESISTANT


SALT CORROSION
RESISTANT



SAND
RESISTANT


$\frac{NH_3}{S}$
AMMONIA
RESISTANT


HIGHLY STABLE
AND TOUGH

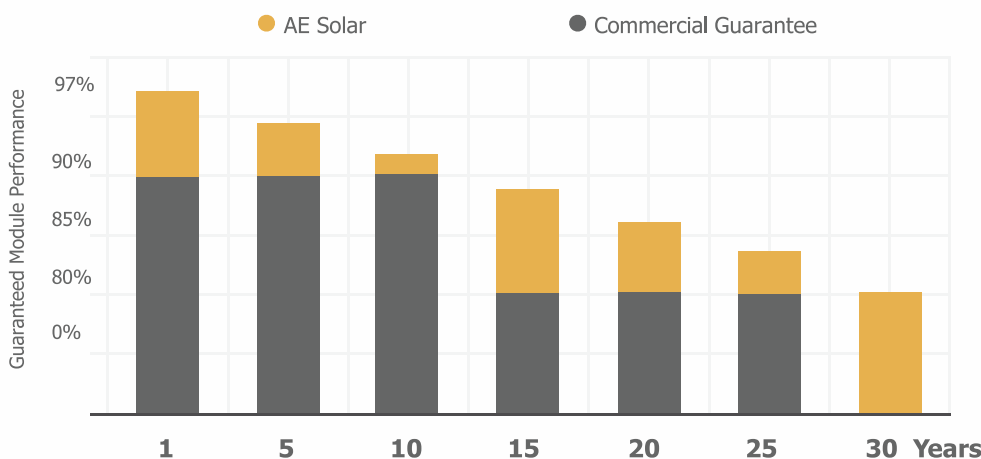
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 **CERTIFICATES**
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OUR PERFORMANCE GUARANTEE



30
years
Performance
Guarantee

12
years
Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-72 Series 370W-400W

AE370HM6-72 AE375HM6-72 AE380HM6-72 AE385HM6-72 AE390HM6-72 AE395HM6-72 AE400HM6-72

SPECIFICATIONS

Nominal Max. Power	P _{max} (Wp)	370	375	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	39.90	40.20	40.50	40.80	41.10	41.40	41.71
Maximum power current	I _{mp} (A)	9.28	9.33	9.39	9.44	9.49	9.54	9.59
Open-circuit voltage	V _{oc} (V)	48.51	48.72	48.90	49.10	49.30	49.48	49.69
Short-circuit current	I _{sc} (A)	9.61	9.68	9.75	9.92	10.12	10.50	10.59
Module efficiency	(%)	18.77	19.08	19.28	19.53	19.79	20.04	20.29
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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 158.75 x 158.75mm
No. of cells	72 (6 x 12)
Dimensions	1979 X 996 X 35 mm
Weight	21 KG
Junction box	IP 67 rated
Output cable	1 x 4.0mm², 1200mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m²
Mechanical load	5400 Pa / 550 kg/m²

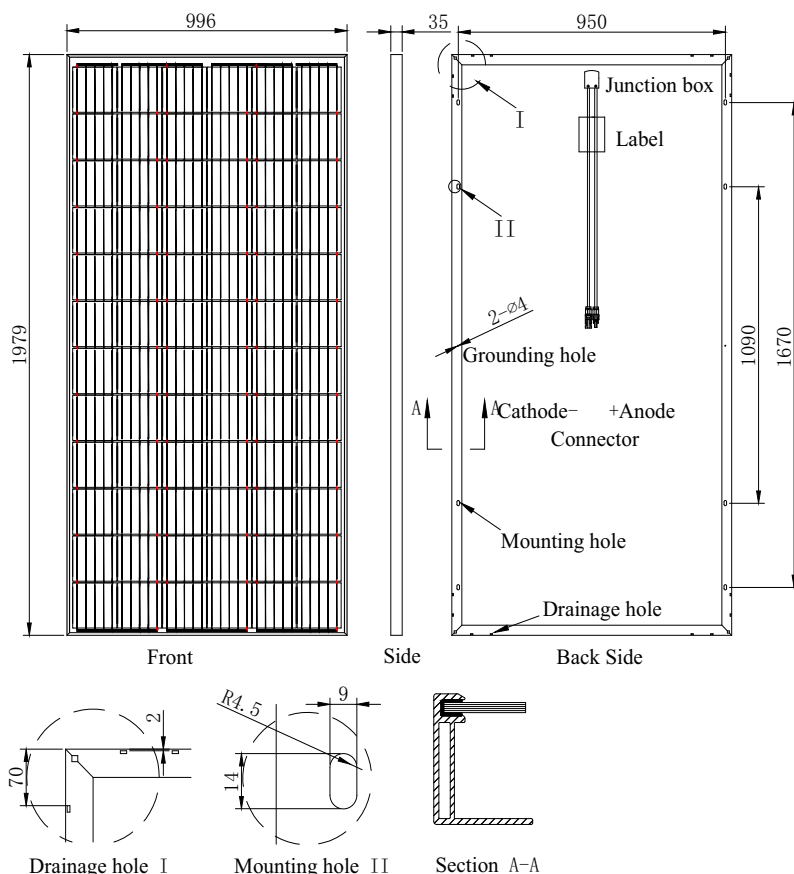
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2015x1120x2395
Weight	1464 kg / double pallet

CERTIFICATES



DIMENSIONS



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Inspiring green-energy since 2003



PERC Technology AE LARGE CELL BIFACIAL MONOCRYSTALLINE PV MODULES WITH TRANSPARENT BACKSHEET AE HM6-60 SERIES 305W-335W

60
CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT


SAND
RESISTANT


$\frac{NH_3}{S}$
AMMONIA
RESISTANT


HIGHLY STABLE
AND TOUGH

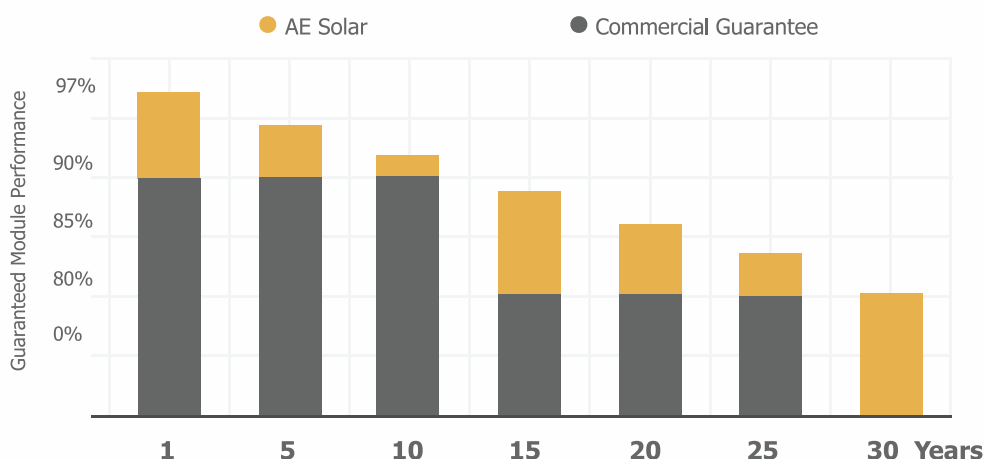
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 **PERFORMANCE GUARANTEE**
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OUR PERFORMANCE GUARANTEE



30
years
Performance
Guarantee

12
years
Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-60 Series 305W-335W

SPECIFICATIONS

AE305HM6-60 AE310HM6-60 AE315HM6-60 AE320HM6-60 AE325HM6-60 AE330HM6-60 AE335HM6-60

Nominal Max. Power	P _{max} (Wp)	305	310	315	320	325	330	335
Maximum power voltage	V _{mp} (V)	32.80	33.00	33.20	33.40	33.61	33.81	34.02
Maximum power current	I _{mp} (A)	9.30	9.40	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	V _{oc} (V)	40.31	40.50	40.70	40.90	41.10	41.31	41.49
Short-circuit current	I _{sc} (A)	9.83	9.92	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.39	18.69	18.99	19.30	19.60	19.90	20.20
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.37						
Temp. coefficients of V _{oc}	(%/°C)	-0.28						
Temp. coefficients of I _{sc}	(%/°C)	0.048						
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.

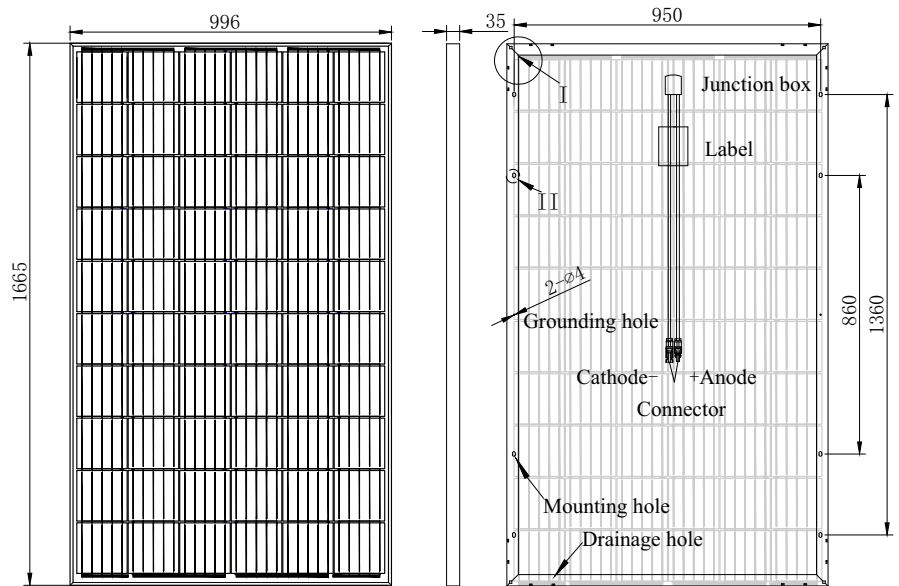
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1665 x 996 x 35 mm
Weight	18.5 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 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

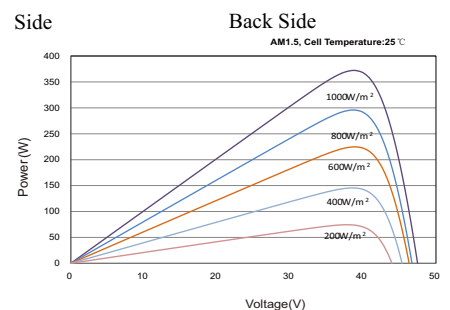
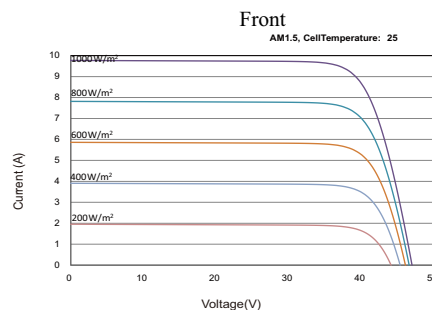
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1695 X 1135 X 2395
Weight	1283 kg / double pallet

DIMENSIONS



CERTIFICATES



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Inspiring green-energy since 2003



PERC Technology
AE LARGE CELL BIFACIAL
MONOCRYSTALLINE PV MODULES
WITH TRANSPARENT BACKSHEET
AE HM6-72 Series 380W-400W

72

CELLS



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH

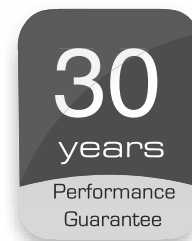
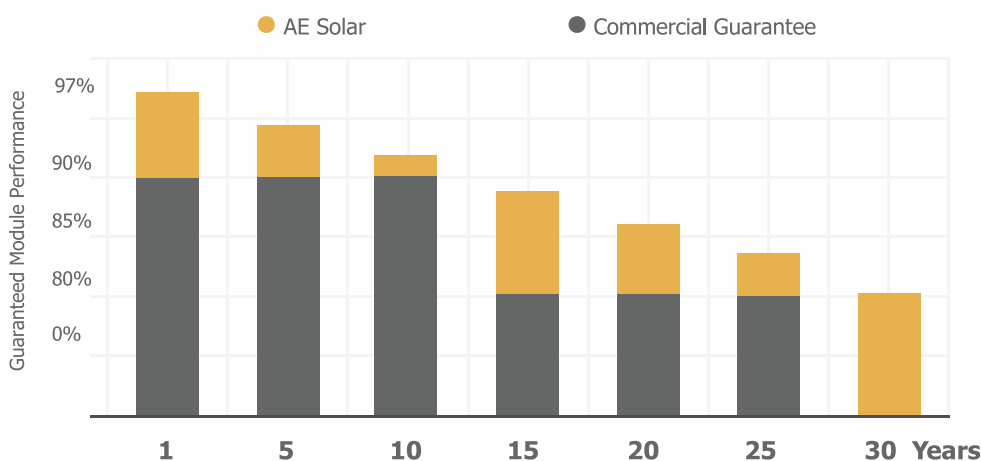
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+ PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

⌚ PERFORMANCE GUARANTEE
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📄 CERTIFICATES
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OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-72 Series 380W-400W

SPECIFICATIONS

AE380HM6-72

AE385HM6-72

AE390HM6-72

AE395HM6-72

AE400HM6-72

Nominal Max. Power	P _{max} (Wp)	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	40.50	40.80	41.10	41.40	41.71
Maximum power current	I _{mp} (A)	9.39	9.44	9.49	9.54	9.59
Open-circuit voltage	V _{oc} (V)	48.90	49.10	49.30	49.48	49.69
Short-circuit current	I _{sc} (A)	9.75	9.92	10.12	10.50	10.59
Module efficiency	(%)	19.28	19.53	19.79	20.04	20.29
Power tolerance	P _{max} (Wp)	0 / + 5				
Maximum system voltage DC	(V)	1000				
Maximum series fuse rating	(A)	15				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of P _{max}	(%/°C)	-0.37				
Temp. coefficients of V _{oc}	(%/°C)	-0.28				
Temp. coefficients of I _{sc}	(%/°C)	0.048				
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.

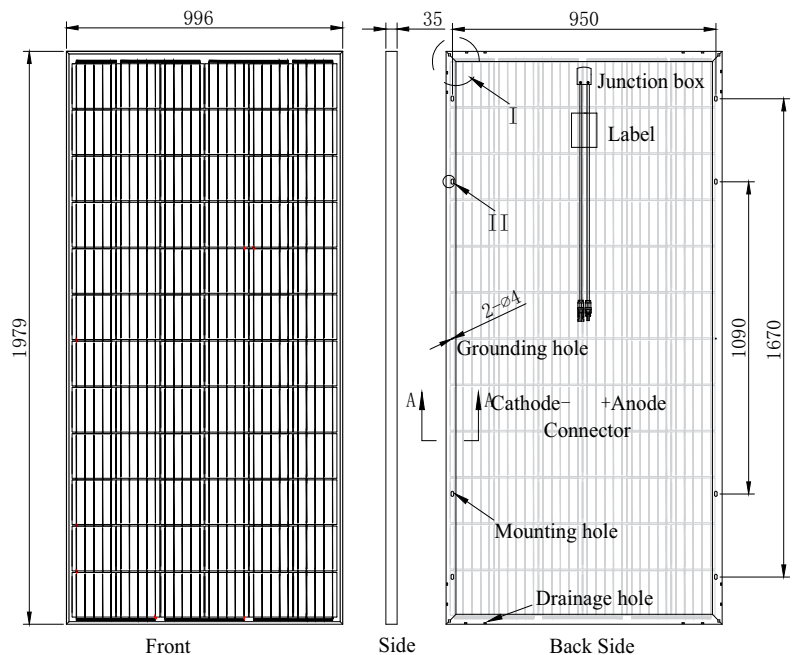
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	72 (6 x 12)
Dimensions	1979 X 996 X 35 mm
Weight	21 KG
Junction box	IP 67 rated
Output cable	1 x 4.0mm ² , 1200mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

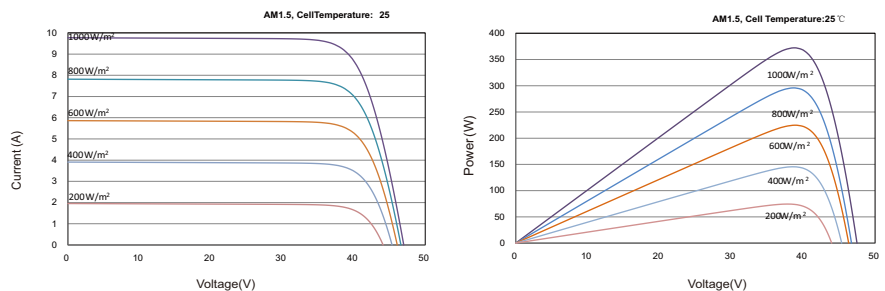
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2015x1120x2395
Weight	1464 kg / double pallet

DIMENSIONS



CERTIFICATES



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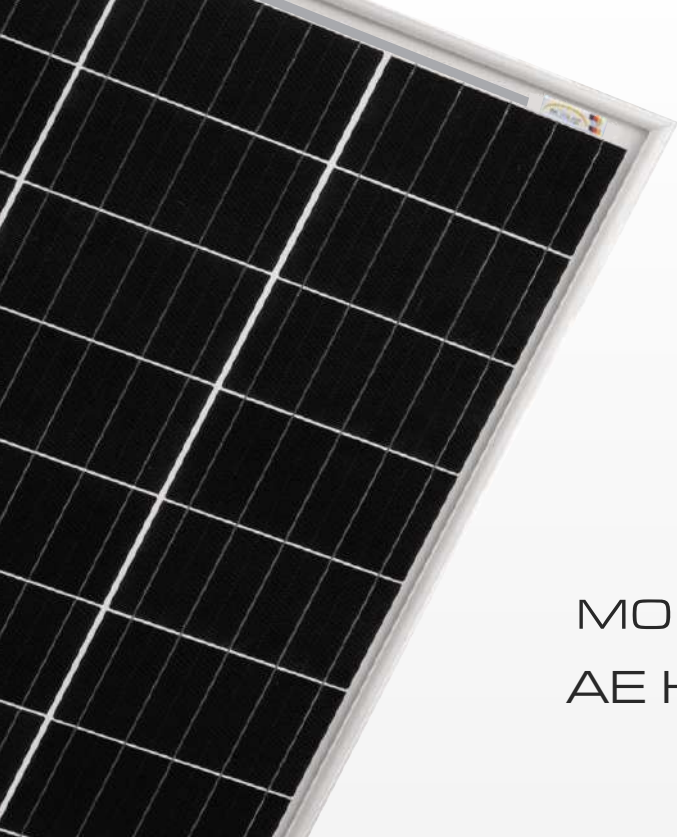
AE SOLAR

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Germany

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Email: sales@ae-solar.com
Web: www.ae-solar.com

HALF CELL TECHNOLOGY PV MODULES





Inspiring green-energy since 2003



AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6L-60 Series 320W-345W

tested by  **Fraunhofer**
CSP

120
CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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PLUS-SORTING

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PERFORMANCE GUARANTEE

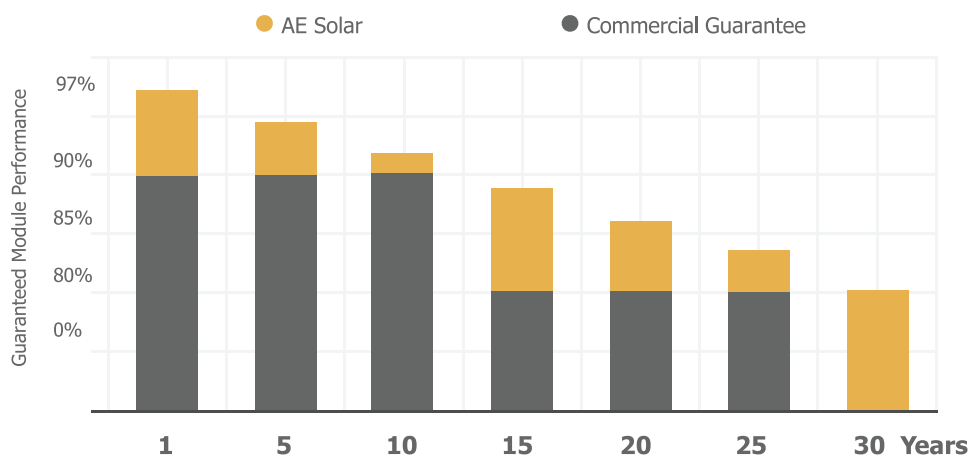
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CERTIFICATES

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OUR PERFORMANCE GUARANTEE



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6L-60 Series 320W-345W

SPECIFICATIONS

		AE320HM6L-60	AE325HM6L-60	AE330HM6L-60	AE335HM6L-60	AE340HM6L-60	AE345HM6L-60
Nominal Max. Power	P _{max} (Wp)	320	325	330	335	340	345
Maximum power voltage	V _{mp} (V)	33.61	33.89	34.17	34.44	34.69	34.95
Maximum power current	I _{mp} (A)	9.52	9.59	9.66	9.73	9.80	9.87
Open-circuit voltage	V _{oc} (V)	40.74	41.05	41.32	41.61	41.88	42.32
Short-circuit current	I _{sc} (A)	9.98	10.06	10.14	10.22	10.30	10.38
Module efficiency	(%)	19.08	19.38	19.67	19.97	20.27	20.57
Operating temperature	(°C)	-40 to +85					
Maximum system voltage DC	V (IEC)	1500					
Maximum series fuse rating	(A)	15					
Power tolerance	(%)	0/+4.99					
Temp. coefficients of P _{max}	(%/°C)	-0.3438					
Temp. coefficients of V _{oc}	(%/°C)	-0.2722					
Temp. coefficients of I _{sc}	(%/°C)	0.0353					
Nom. Operating cell temp.(NOCT)	(°C)	44±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 158.75 x 79.38mm
No. of cells	120 (60 full cells)
Dimensions	1692 x 996 x 35 MM
Weight	19 KG
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² 350 mm 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

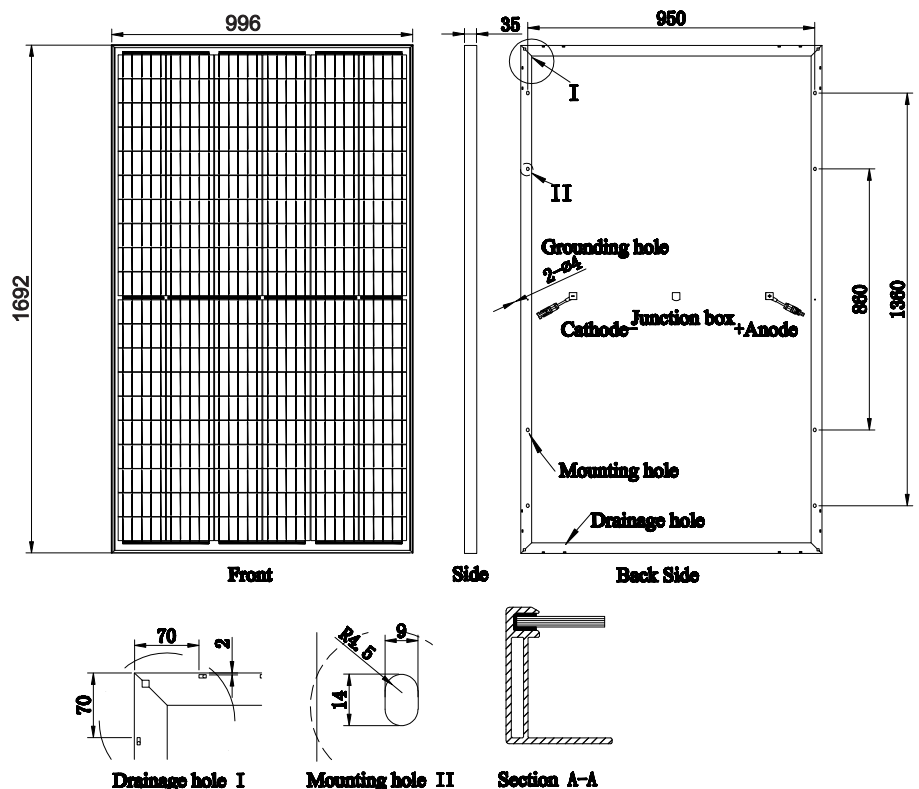
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	832 pcs / 40HQ
Size / pallet (mm)	1725 x1135 x2395
Weight	1335 kg / pallet

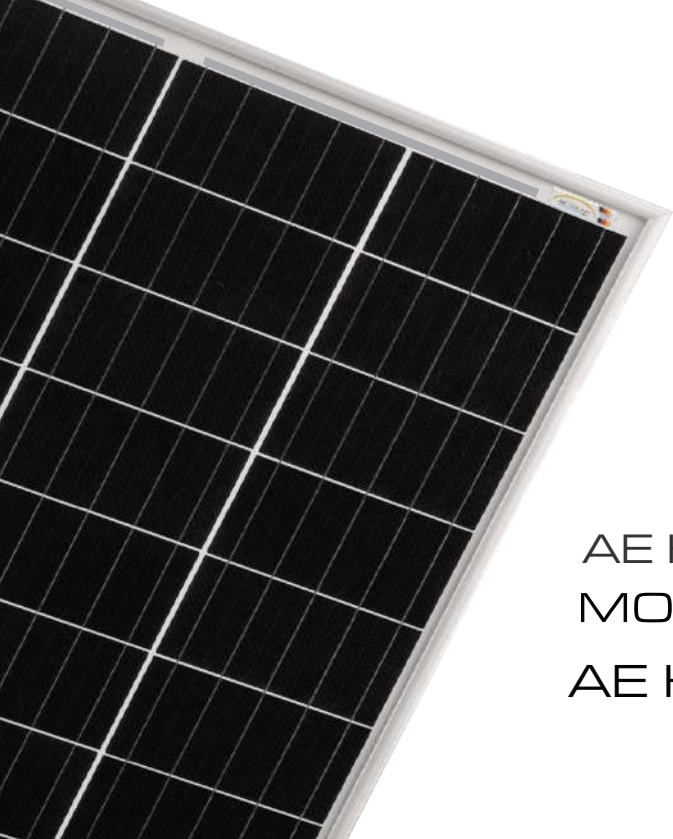
CERTIFICATES



DIMENSIONS



AES-DSH2019 V.002
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Inspiring green-energy since 2003



AE HALF LARGE CELL IEC 1500 VDC MONOCRYSTALLINE PV MODULES AE HM6L-72 Series 390W-415W

tested by  **Fraunhofer**
CSP

144

CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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PLUS-SORTING

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



PERFORMANCE GUARANTEE

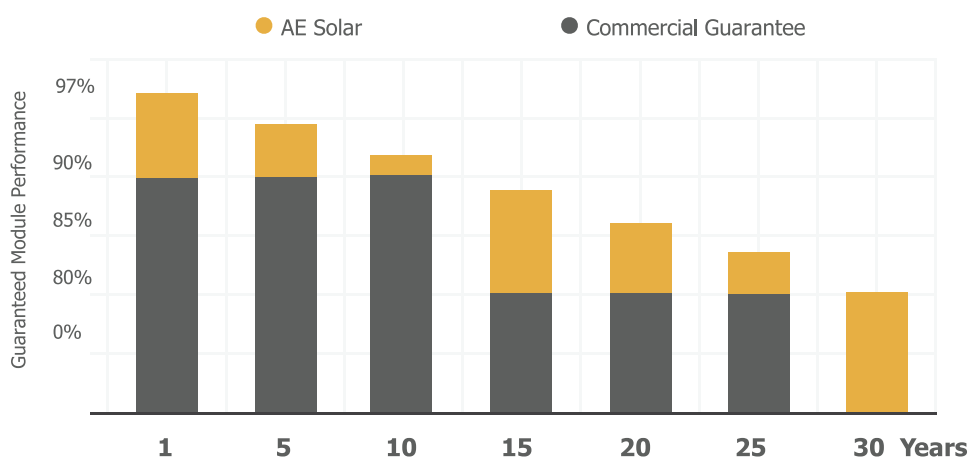
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CERTIFICATES

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OUR PERFORMANCE GUARANTEE



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6L-72 Series 390W-415W

SPECIFICATIONS

AE390HM6L-72 AE395HM6L-72 AE400HM6L-72 AE405HM6L-72 AE410HM6L-72 AE415HM6L-72

Nominal Max. Power	P _{max} (Wp)	390	395	400	405	410	415
Maximum power voltage	V _{mp} (V)	40.79	41.06	41.32	41.59	41.85	42.09
Maximum power current	I _{mp} (A)	9.56	9.62	9.68	9.74	9.80	9.86
Open-circuit voltage	V _{oc} (V)	49.06	49.35	49.25	49.53	49.80	50.51
Short-circuit current	I _{sc} (A)	10.10	10.17	10.24	10.31	10.37	10.44
Module efficiency	(%)	19.43	19.68	19.93	20.18	20.43	20.68
Operating temperature	(°C)	-40 to +85					
Maximum system voltage DC	V (IEC)	1500					
Maximum series fuse rating	(A)	15					
Power tolerance	(%)	0/+4.99					
Temp. coefficients of P _{max}	(%/°C)	-0.352					
Temp. coefficients of V _{oc}	(%/°C)	-0.277					
Temp. coefficients of I _{sc}	(%/°C)	0.04					
Nom. Operating cell temp.(NOCT)	(°C)	44±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	PERC Mono-crystalline 158.75 x 79.38mm
No. of cells	144 (72 Full cells)
Dimensions	2015 x 996 x 35 MM
Weight	21 KG
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² 350 mm length or customised
Connector type	MC4 / MC4 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

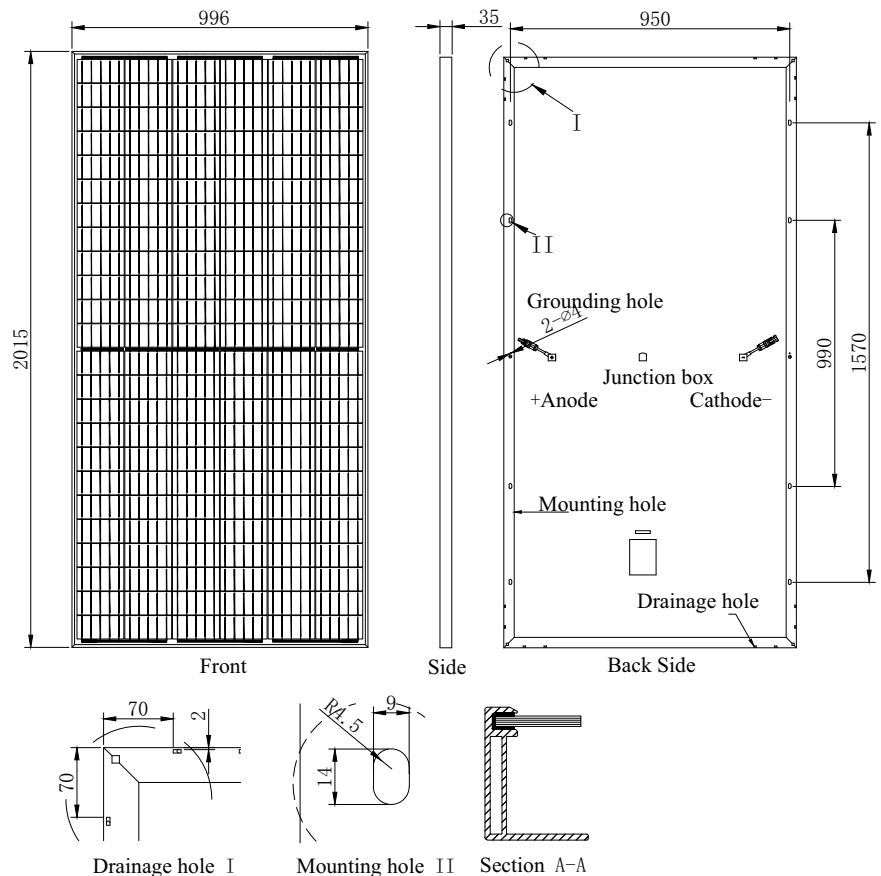
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	704 pcs / 40HQ
Size / pallet (mm)	2045 x 1120 x 2395
Weight	1495 kg / pallet

CERTIFICATES



DIMENSIONS



AE-DSH2019 V.002
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Inspiring green-energy since 2003



HALF LARGE CELL IEC 1500VDC MONOCRYSTALLINE PV MODULES AE HM6L-72 Series 430W-450W


tested by  **Fraunhofer**
CSP

144
CELLS


**PID
RESISTANT**


**SALT CORROSION
RESISTANT**


**SAND
RESISTANT**


**AMMONIA
RESISTANT**


**HIGHLY STABLE
AND TOUGH**

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.

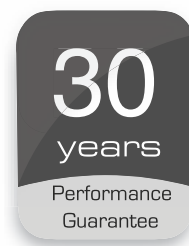
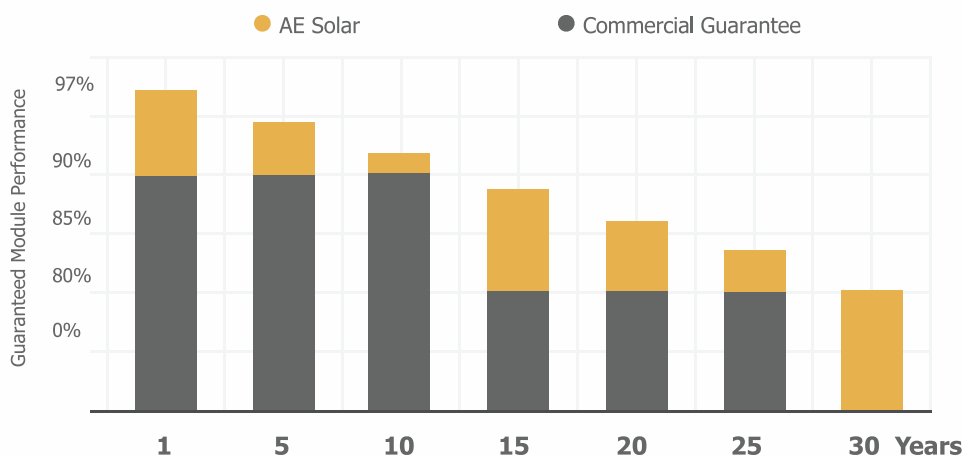
PLUS-SORTING

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 HM6L-72 Series 430W-450W

SPECIFICATIONS

AE430HM6L-72 AE435HM6L-72 AE440HM6L-72 AE445HM6L-72 AE450HM6L-72

Nominal Max. Power	P _{max} (Wp)	430	435	440	445	450
Maximum power voltage	V _{mp} (V)	40.6	40.8	41.0	41.2	41.4
Maximum power current	I _{mp} (A)	10.60	10.67	10.74	10.80	10.87
Open-circuit voltage	V _{oc} (V)	49.2	49.4	49.6	49.8	50.0
Short-circuit current	I _{sc} (A)	11.19	11.26	11.33	11.46	11.54
Module efficiency	(%)	19.8	20.0	20.2	20.5	20.7
Operating temperature	(°C)	-40 to +85				
Maximum system voltage DC	V (IEC)	1500				
Maximum series fuse rating	(A)	20				
Power tolerance	(%)	0/+4.99				
Temp. coefficients of P _{max}	(%/°C)	-0.370				
Temp. coefficients of V _{oc}	(%/°C)	-0.286				
Temp. coefficients of I _{sc}	(%/°C)	0.057				
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.

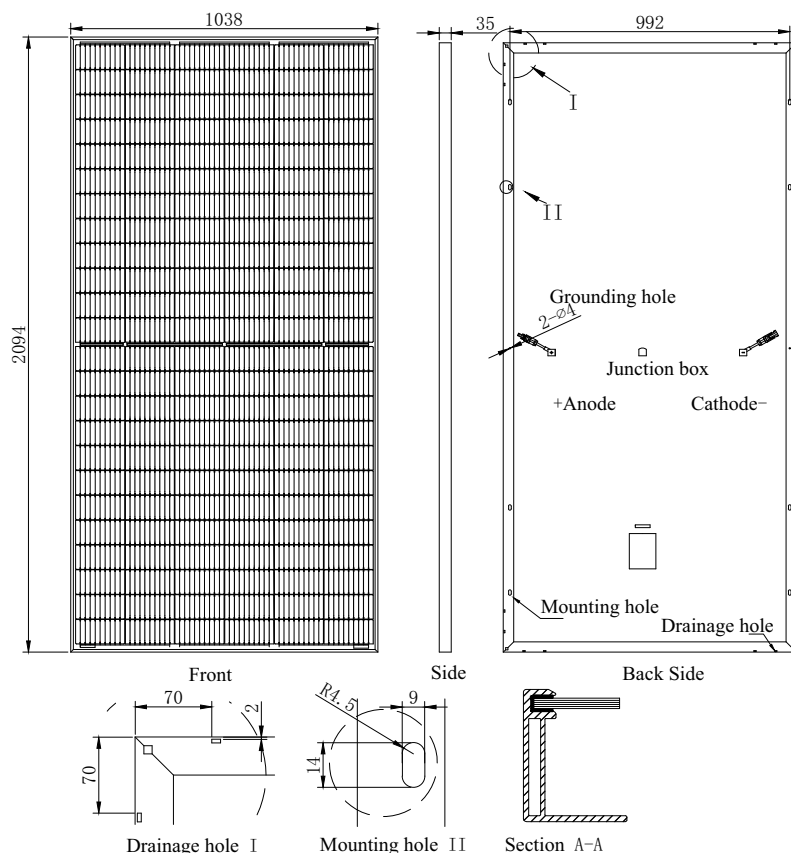
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 166*83 mm
No. of cells	144 Cells (72 Full Cells)
Dimensions	2094 x 1038 x 35 mm
Weight	23KG
Junction box	IP 68 rated (3 bypass diodes)
Output cable	1 x 4.0mm ² , 350 mm length or customised
Connector type	MC4 / MC4 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	62 pcs / double pallet
Loading Capacity	682 pcs / 40HQ
Size / pallet (mm)	2125x1135x2415
Weight	1550kg /double pallet

DIMENSIONS



CERTIFICATES



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Inspiring green-energy since 2003



AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6L-60 Series 450W-460W

tested by  **Fraunhofer**
CSP

120
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

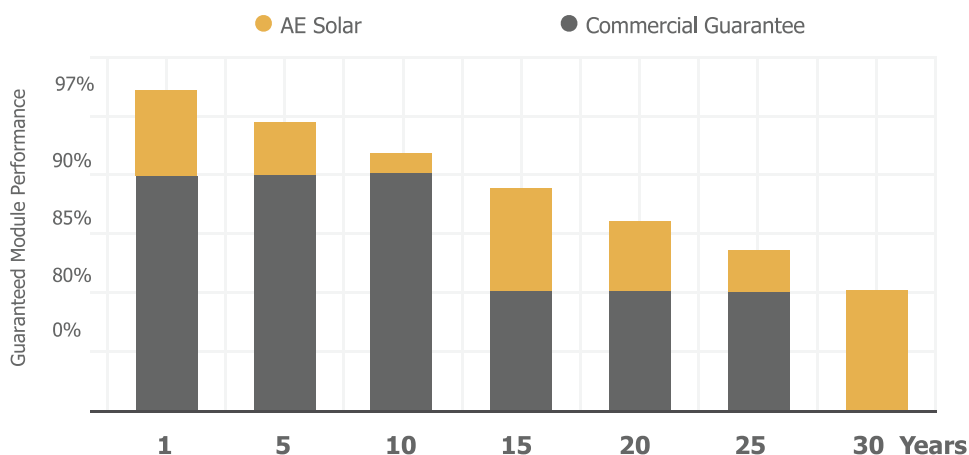
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.



CERTIFICATES

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OUR PERFORMANCE GUARANTEE



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6L-60 Series 450W-460W

SPECIFICATIONS

		AE450HM6L-60	AE455HM6L-60	AE460HM6L-60
Nominal Max. Power	P _{max} (Wp)	450	455	460
Maximum power voltage	V _{mp} (V)	35.13	35.38	35.60
Maximum power current	I _{mp} (A)	12.81	12.86	12.92
Open-circuit voltage	V _{oc} (V)	41.98	42.29	42.60
Short-circuit current	I _{sc} (A)	13.57	13.62	13.67
Module efficiency	(%)	20.8	21	21.3
Operating temperature	(°C)	-40 to +85		
Maximum system voltage DC	V (IEC)	1500		
Maximum series fuse rating	(A)	25		
Power tolerance	(%)	0/+4.99		
Temp. coefficients of P _{max}	(%/°C)	-0.35		
Temp. coefficients of V _{oc}	(%/°C)	-0.275		
Temp. coefficients of I _{sc}	(%/°C)	0.045		
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 182 x 91 mm
No. of cells	120 (60 full cells)
Dimensions	1910 x 1133 x 35 MM
Weight	24 KG
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² 350 mm 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

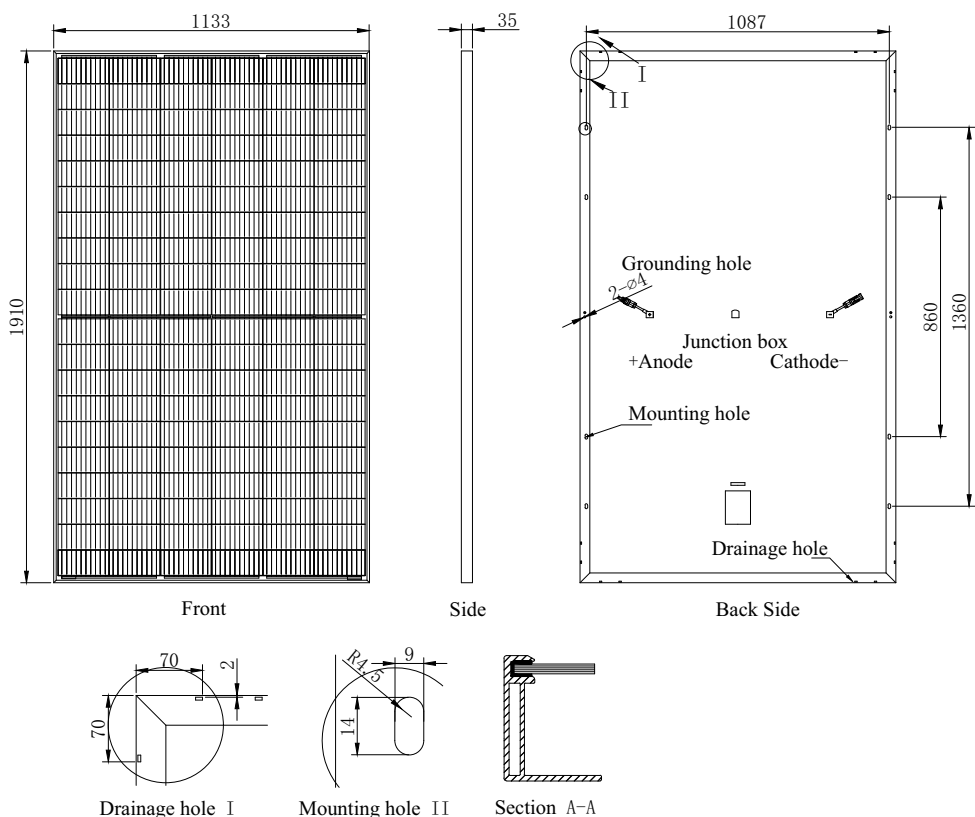
PACKAGING INFORMATION

Packing configuration	60 pcs / double pallet
Loading Capacity	720 pcs / 40HQ
Size / pallet (mm)	1945 x1135 x2490
Weight	1550 kg / double pallet

CERTIFICATES



DIMENSIONS



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AE HALF LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6L-66 Series 495W-505W

tested by  **Fraunhofer**
CSP

132
CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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PLUS-SORTING

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



PERFORMANCE GUARANTEE

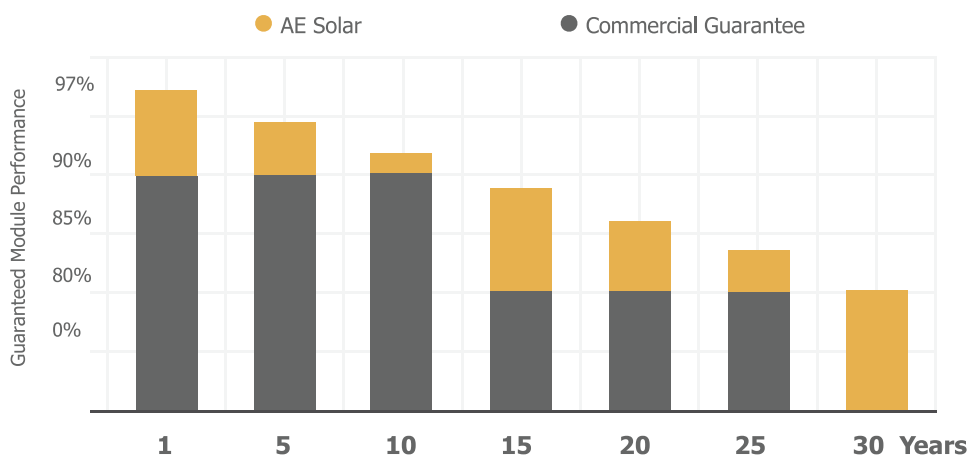
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CERTIFICATES

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OUR PERFORMANCE GUARANTEE



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6L-66 Series 495W-505W

SPECIFICATIONS

		AE495HM6L-66	AE500HM6L-66	AE505HM6L-66
Nominal Max. Power	P _{max} (Wp)	495	500	505
Maximum power voltage	V _{mp} (V)	38.79	39.03	39.27
Maximum power current	I _{mp} (A)	12.76	12.81	12.86
Open-circuit voltage	V _{oc} (V)	46.34	46.64	46.93
Short-circuit current	I _{sc} (A)	13.52	13.57	13.62
Module efficiency	(%)	20.9	21.1	21.3
Operating temperature	(°C)	-40 to +85		
Maximum system voltage DC	V (IEC)	1500		
Maximum series fuse rating	(A)	25		
Power tolerance	(%)	0/+4.99		
Temp. coefficients of P _{max}	(%/°C)	-0.35		
Temp. coefficients of V _{oc}	(%/°C)	-0.275		
Temp. coefficients of I _{sc}	(%/°C)	0.045		
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.

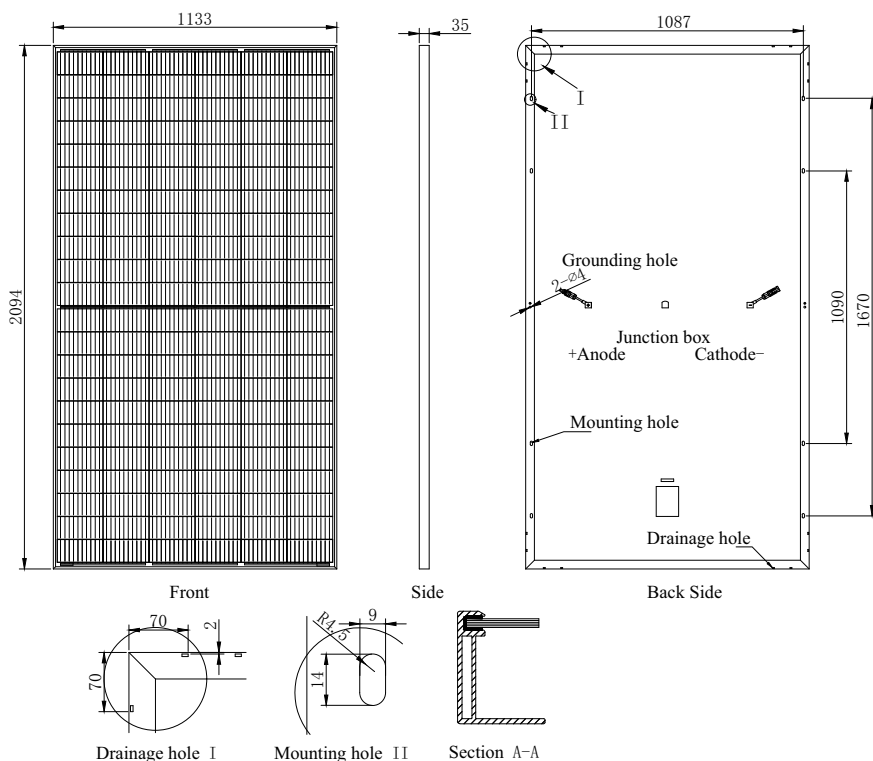
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 182 x 91 mm
No. of cells	132 (66 full cells)
Dimensions	2094 x 1133 x 35 MM
Weight	26 KG
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² 350 mm 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	60 pcs / double pallet
Loading Capacity	660 pcs / 40HQ
Size / pallet (mm)	2125 x1135 x2490
Weight	1680 kg / double pallet

DIMENSIONS



CERTIFICATES



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AE HALF LARGE CELL BIFACIAL MONOCRYSTALLINE PV MODULES WITH TRANSPARENT BACKSHEET AE HM6L-72 Series 525W-550W


tested by  **Fraunhofer**
CSP

144
CELLS


**PID
RESISTANT**


**SALT CORROSION
RESISTANT**


**SAND
RESISTANT**


**AMMONIA
RESISTANT**


**HIGHLY STABLE
AND TOUGH**

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

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PERFORMANCE GUARANTEE

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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.

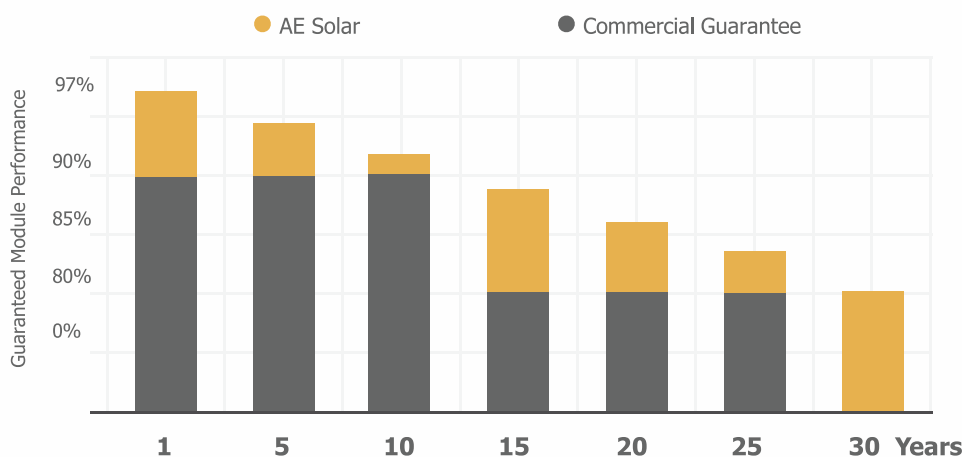
PLUS-SORTING

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

CERTIFICATES

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OUR PERFORMANCE GUARANTEE



30
years
Performance
Guarantee

12
years
Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6L-72 Series 525W-550W

SPECIFICATIONS

AE525HM6L-72 AE530HM6L-72 AE535HM6L-72 AE540HM6L-72 AE545HM6L-72 AE550HM6L-72

Nominal Max. Power	Pmax (Wp)	525	530	535	540	545	550
Maximum power voltage	Vmp(V)	41.47	41.70	41.93	42.16	42.57	42.98
Maximum power current	Imp (A)	12.66	12.71	12.76	12.81	12.86	12.92
Open-circuit voltage	Voc(V)	49.50	49.65	49.78	49.90	50.01	51.44
Short-circuit current	Isc (A)	13.42	13.47	13.52	13.57	13.62	13.67
Module efficiency	(%)	20.3	20.5	20.7	20.9	21.1	21.3
Operating temperature	(°C)	-40 to +85					
Maximum system voltage DC	V (IEC)	1500					
Maximum series fuse rating	(A)	25					
Power tolerance	(%)	0/+4.99					
Temp. coefficients of Pmax	(%/°C)	-0.350					
Temp. coefficients of Voc	(%/°C)	-0.275					
Temp. coefficients of Isc	(%/°C)	0.045					
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.

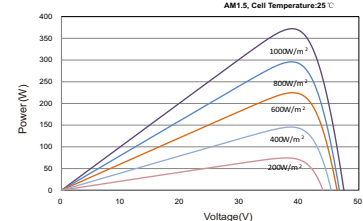
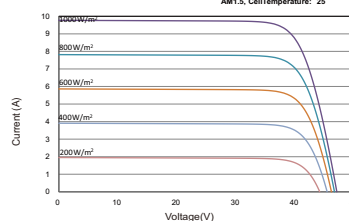
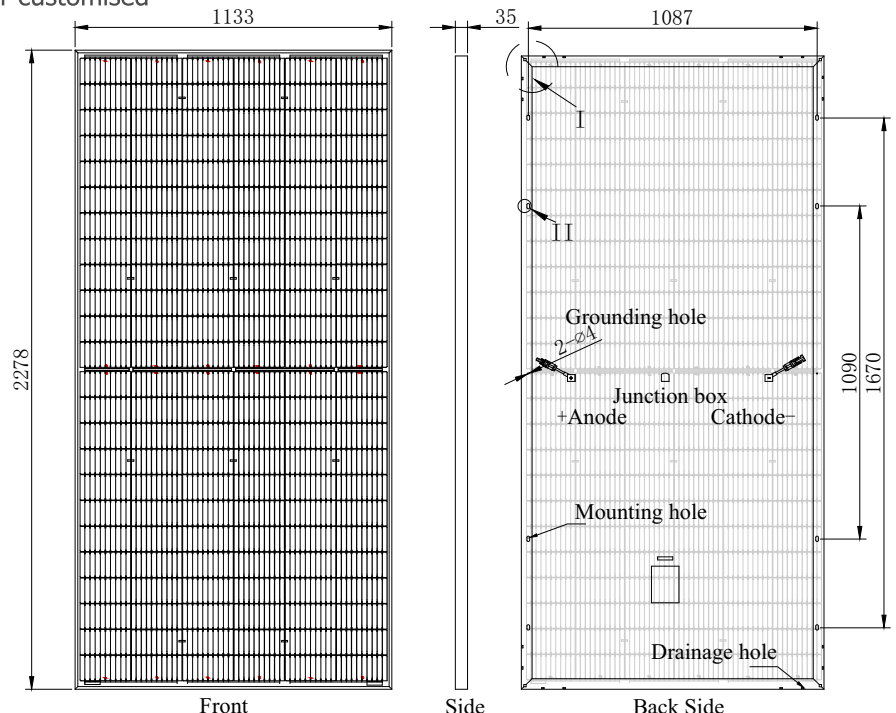
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 182 X 91 mm
No. of cells	144 Cells (72 Full Cells)
Dimensions	2278 X 1133 X 35
Weight	27KG
Junction box	IP 68 rated (3 bypass diodes)
Output cable	1 x 4.0mm ² , 350 mm length or customised
Connector type	MC4 / MC4 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	60 pcs / double pallet
Loading Capacity	600 pcs / 40HQ
Size / pallet (mm)	2310x1135x2490
Weight	1750kg /double pallet

DIMENSIONS



CERTIFICATES



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AE DOUBLE-GLASS PV MODULES





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AE DOUBLE GLASS LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6-60 Series 315W-335W THE LIGHTWEIGHT TECHNOLOGY

60

CELLS



MICRO-CRACK
FREE



FIRE CLASS
A



PID



SALT CORROSION
RESISTANT



SAND
RESISTANT

NH₃
S

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.



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

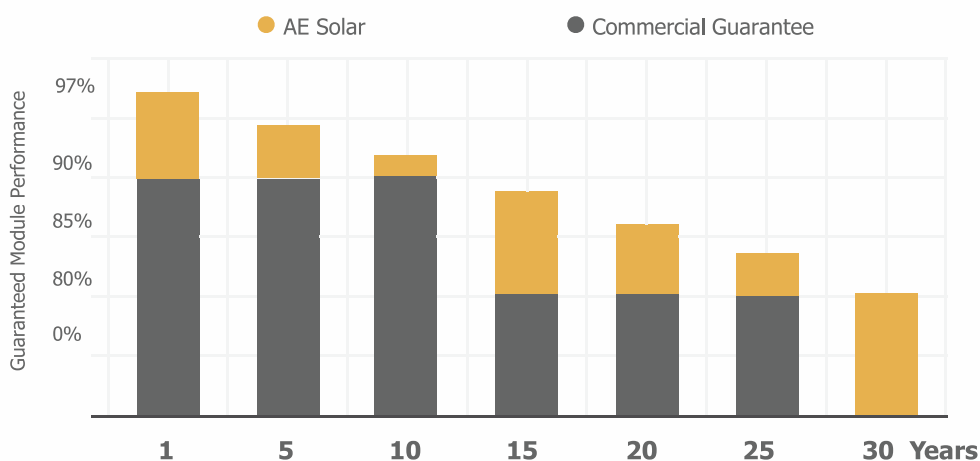
Back sheet is replaced by 2 mm tempered glass, ensuring additional safety, no back sheet degradation and surface for heat loss. Lower temperature offers better and more stable output during high temperature conditions.



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



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-60 Series 315W-335W

SPECIFICATIONS

AE315HM6-60 AE320HM6-60 AE 325HM6-60 AE330HM6-60 AE 335HM6-60

Nominal Max. Power	Pmax (Wp)	315	320	325	330	335
Maximum power voltage	Vmp(V)	33.20	33.40	33.61	33.81	34.02
Maximum power current	Imp (A)	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	Voc(V)	40.70	40.90	41.10	41.31	41.49
Short-circuit current	Isc (A)	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.71	19.01	19.31	19.60	19.90
Power tolerance	Pmax (Wp)	0 / +4.99				
Maximum system voltage DC	(V)	1500				
Maximum series fuse rating	(A)	15				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of Pmax	(%/°C)	-0.37				
Temp. coefficients of Voc	(%/°C)	-0.28				
Temp. coefficients of Isc	(%/°C)	0.048				
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.

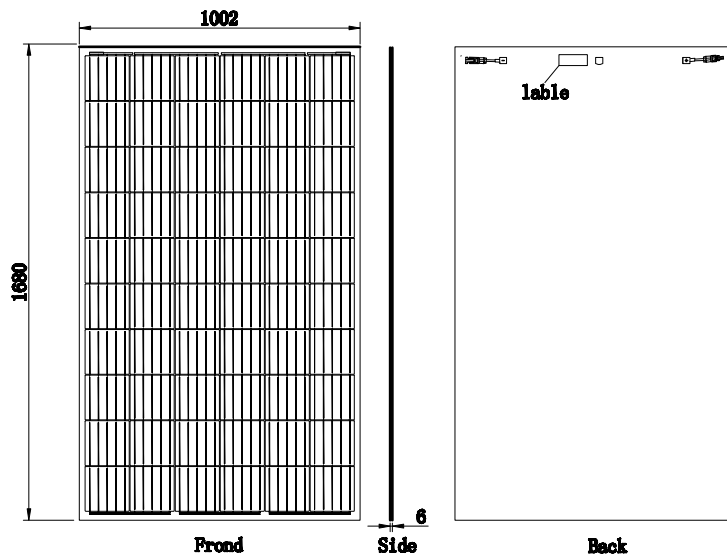
MATERIAL CHARACTERISTICS

Cell Type	Mono-crystalline
Cell Dimension	158.75mm x 158.75mm
Dimensions	1680mm x 1002mm x 6mm (J-box not included)
Weight	23.5 kg
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	4.0mm², 300mm length or costumised
Connector	QC 4. 10-35
Wind load	2400Pa / 244kg / m²
Mechanical load	5400Pa / 550kg / m²

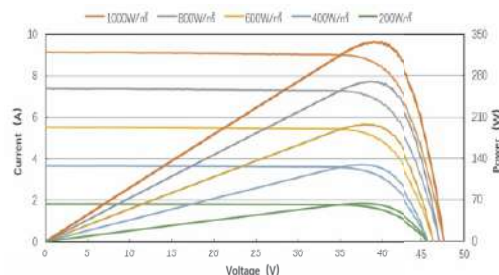
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading capacity	832 pcs / 40HQ
Size / pallet (mm)	1790 x 1115 x 2316
Weight	1650 kg / double pallet

DIMENSIONS



CERTIFICATES



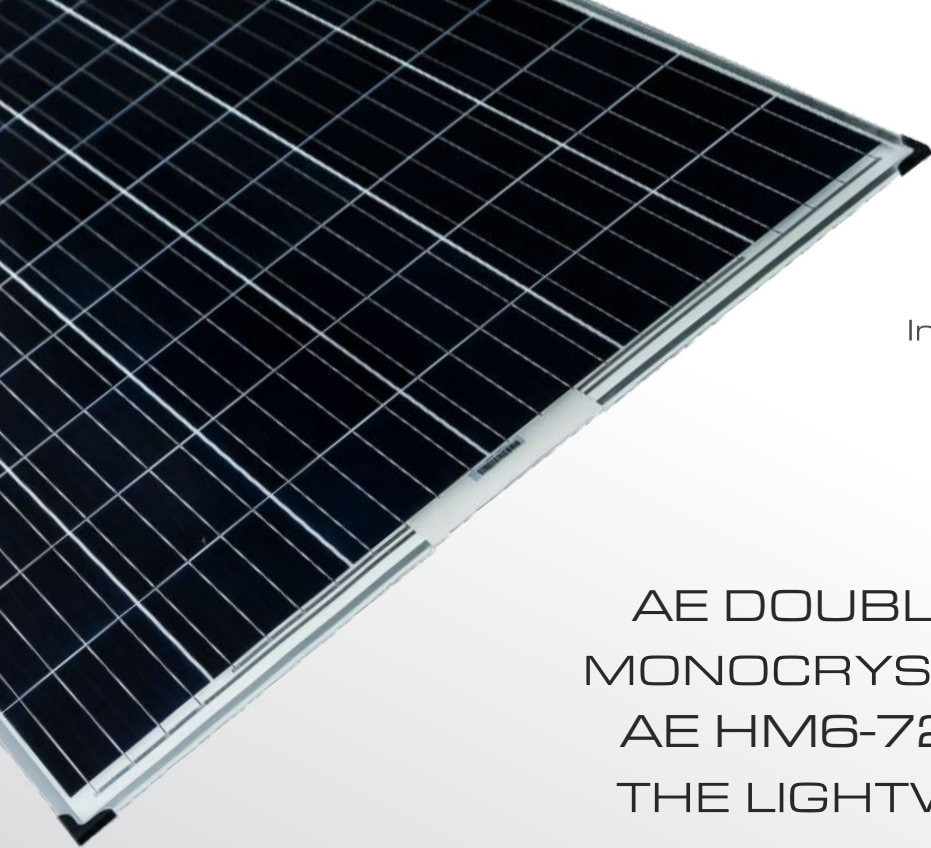
Excellent performance at 200W/m² (AM 1.5, 25 °C): the conversion efficiency could be 96.5% of STC

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AE DOUBLE GLASS LARGE CELL MONOCRYSTALLINE PV MODULES AE HM6-72 Series 380W-400W THE LIGHTWEIGHT TECHNOLOGY

72

CELLS



MICRO-CRACK
FREE



FIRE CLASS
A



PID



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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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

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PLUS-SORTING

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



SAFETY

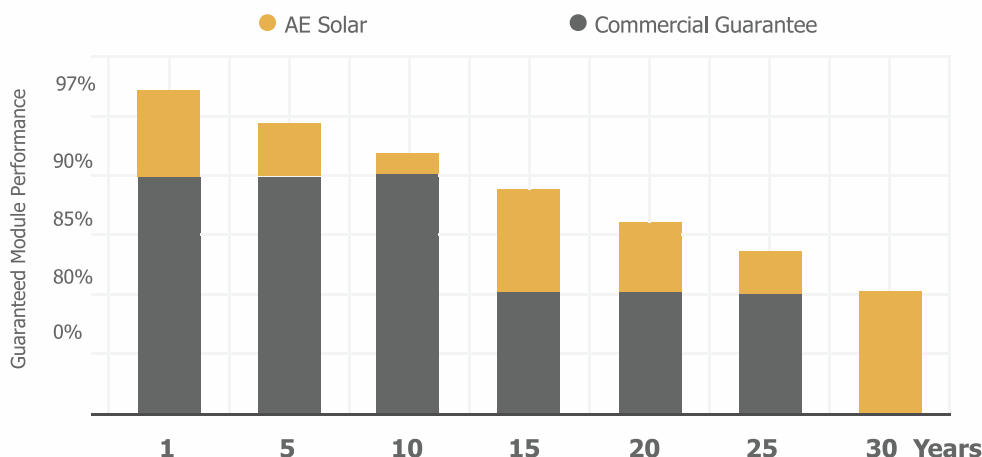
Back sheet is replaced by 2 mm tempered glass, ensuring additional safety, no back sheet degradation and surface for heat loss. Lower temperature offers better and more stable output during high temperature conditions.



CERTIFICATES

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OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE HM6-72 Series 380W-400W

SPECIFICATIONS

AE380HM6-72

AE385HM6-72

AE390HM6-72

AE395HM6-72

AE400HM6-72

Nominal Max. Power	Pmax (Wp)	380	385	390	395	400
Maximum power voltage	Vmp(V)	40.50	40.80	41.10	41.40	41.62
Maximum power current	Imp (A)	9.39	9.44	9.49	9.55	9.61
Open-circuit voltage	Voc(V)	48.90	49.10	49.30	49.50	49.70
Short-circuit current	Isc (A)	9.75	9.92	10.12	10.23	10.32
Module efficiency	(%)	18.94	19.19	19.44	19.69	19.94
Power tolerance	Pmax (Wp)	0 / +4.99				
Maximum system voltage DC	(V)	1500				
Maximum series fuse rating	(A)	15				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of Pmax	(%/°C)	-0.37				
Temp. coefficients of Voc	(%/°C)	-0.28				
Temp. coefficients of Isc	(%/°C)	0.048				
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.

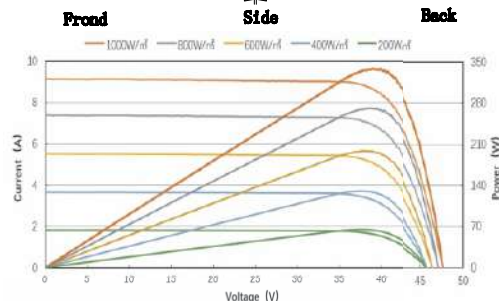
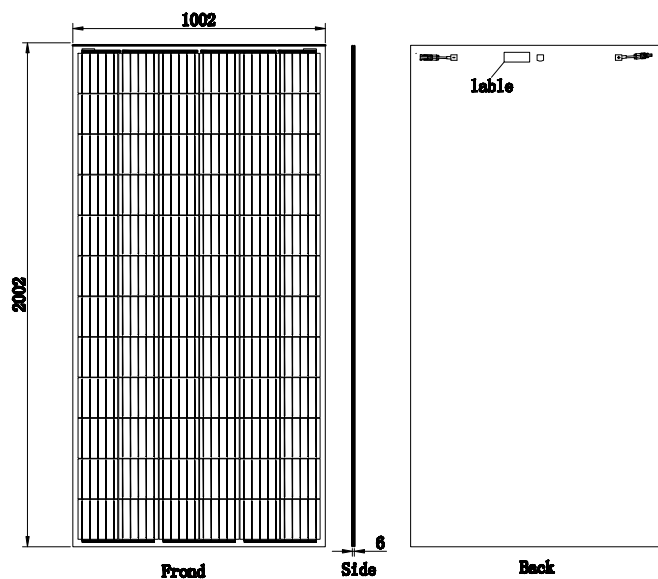
MATERIAL CHARACTERISTICS

Cell Type	Mono-crystalline
Cell Dimension	158.75mm x 158.75mm
Dimensions	2002mm x 1002mm x 6mm (J-box not included)
Weight	28kg
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 ² , 300mm length or costumised
Connector	QC 4. 10-35
Wind load	2400Pa / 244kg / m ²
Mechanical load	5400Pa / 550kg / m ²

PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading capacity	704 pcs / 40HQ
Size / pallet (mm)	2110 x 1115 x 2316
Weight	1970 kg / double pallet

DIMENSIONS



Excellent performance at 200W/m²(AM 1.5, 25 °C): the conversion efficiency could be 99.5% of STC

CERTIFICATES



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Web: www.ae-solar.com

Core values

Reliability ●●●

The best way to verify photovoltaic modules reliability is to observe its performance in a power plant. Modules must be able to withstand any external environmental factors and resist all types of natural stresses as they ultimately affect the power plant's performance and investment IRR.

We put a selection of PV modules through extreme environmental testing to ensure reliability and superior performance in even the world's most unforgiving conditions.



AE POWER PLUS PV MODULES

tested by  **Fraunhofer**
CSP



Deutsche
Qualität
Garantiert



Inspiring green-energy since 2003



AE POWERPLUS MONOCRYSTALLINE PV MODULES AE M6-36 Series 165W-195W

tested by  **Fraunhofer**
CSP

36

CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT




SAND
RESISTANT




AMMONIA
RESISTANT




HIGHLY STABLE
AND TOUGH

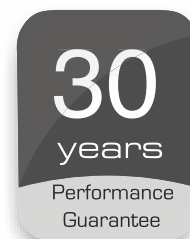
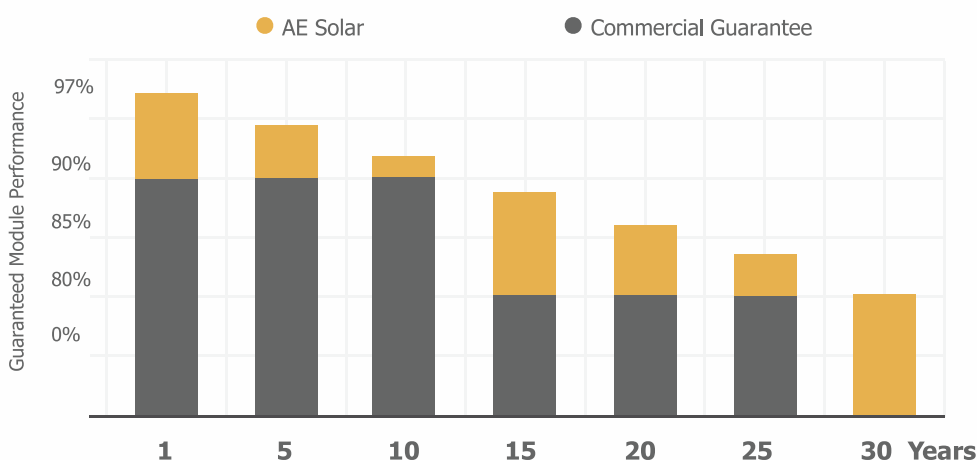
 **GERMAN QUALITY**
AE Solar photovoltaic modules are produced using high quality materials, automated robotic lines, German technology and standards.

 **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.

 **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 M6-36 Series 165W-195W

SPECIFICATIONS

AE165M6-36 AE170M6-36 AE175M6-36 AE180M6-36 AE185M6-36 AE190M6-36 AE195M6-36

Nominal Max. Power	P _{max} (Wp)	165	170	175	180	185	190	195
Maximum power voltage	V _{mp} (V)	18.93	19.35	19.76	20.18	20.59	21.01	21.41
Maximum power current	I _{mp} (A)	8.71	8.79	8.85	8.92	8.98	9.04	9.11
Open-circuit voltage	V _{oc} (V)	23.02	23.23	23.44	23.64	23.85	24.06	24.27
Short-circuit current	I _{sc} (A)	9.41	9.47	9.55	9.59	9.65	9.73	9.79
Module efficiency	(%)	16.64	17.14	17.65	18.15	18.66	19.16	19.67
Power tolerance	P _{max} (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 P _{max}	(%/°C)	-0.38						
Temp. coefficients of V _{oc}	(%/°C)	-0.29						
Temp. coefficients of I _{sc}	(%/°C)	0.05						
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.

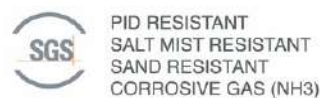
MATERIAL CHARACTERISTICS

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 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

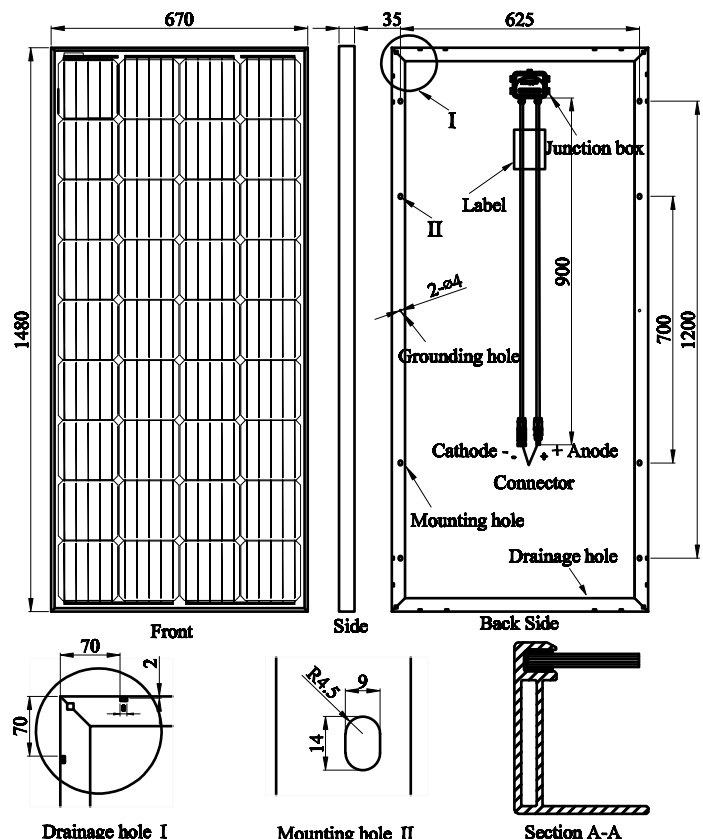
CERTIFICATES



FOR INNOVATIVE
SHADING RESISTANT
MODULES DEVELOPMENT

AES-DSH2019 V.002
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DIMENSIONS



AE SOLAR

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Inspiring green-energy since 2003



PERC Technology AE POWERPLUS MONOCRYSTALLINE PV MODULES AE M6-60 Series 300W-320W

60

CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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PLUS-SORTING

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



PERFORMANCE GUARANTEE

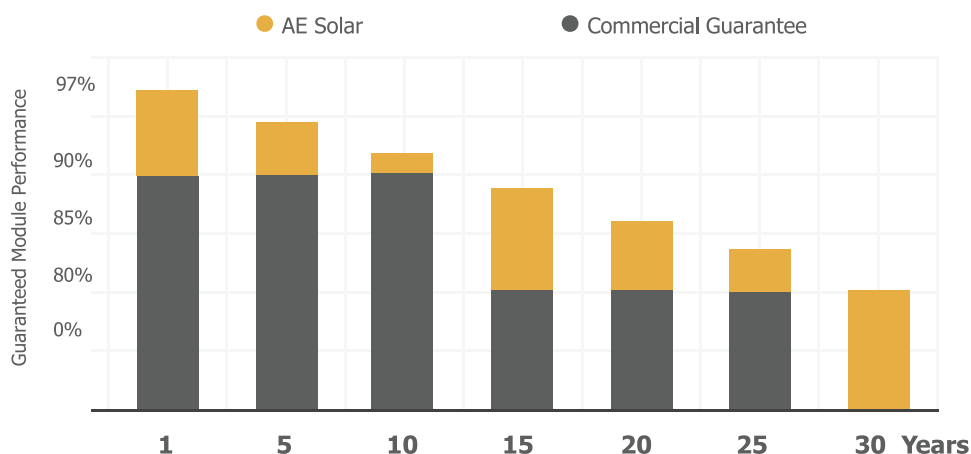
AE Solar assures high investment, security and warranty claims by providing linear performance guarantee of 30 years and 12 years of product warranty.



CERTIFICATES

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OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6-60 Series 300W-320W

SPECIFICATIONS

		AE300M6-60	AE305M6-60	AE310M6-60	AE315M6-60	AE320M6-60
Nominal Max. Power	P _{max} (Wp)	300	305	310	315	320
Maximum power voltage	V _{mp} (V)	33.59	34.01	34.42	34.84	35.19
Maximum power current	I _{mp} (A)	8.93	8.97	9.01	9.04	9.11
Open-circuit voltage	V _{oc} (V)	39.36	39.56	39.77	39.98	40.21
Short-circuit current	I _{sc} (A)	9.62	9.66	9.71	9.77	9.83
Module efficiency	(%)	18.33	18.63	18.94	19.24	19.55
Power tolerance	P _{max} (Wp)	0 / + 5				
Maximum system voltage DC	(V)	1000				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of P _{max}	(%/°C)	-0.38				
Temp. coefficients of V _{oc}	(%/°C)	-0.29				
Temp. coefficients of I _{sc}	(%/°C)	0.05				
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.

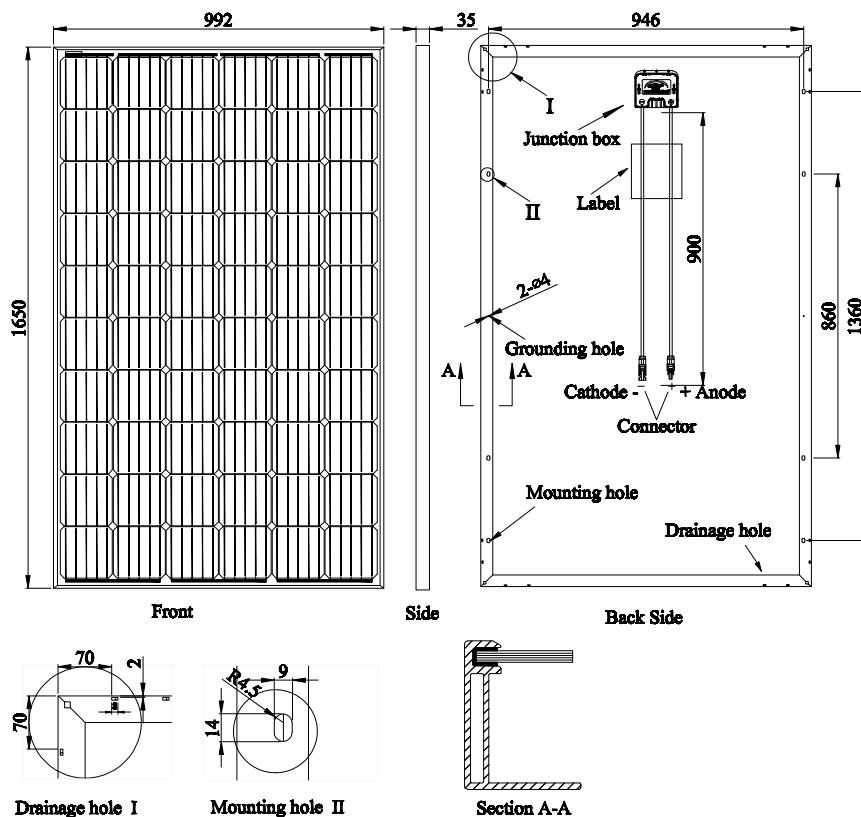
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 156.75mm × 156.75mm
No. of cells	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 ² , 900mm length or customised
Connector type	MC 4/MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

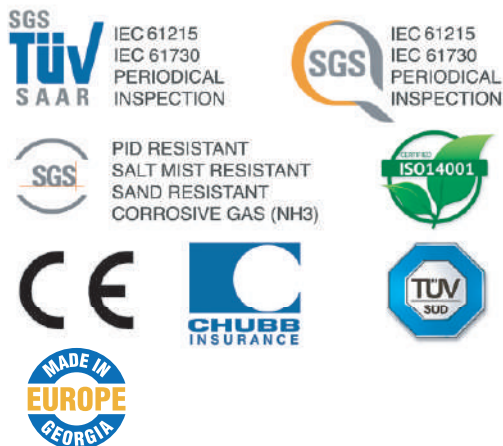
PACKAGING INFORMATION

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

DIMENSIONS



CERTIFICATES



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AE SOLAR

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Inspiring green-energy since 2003



PERC Technology AE POWERPLUS MONOCRYSTALLINE PV MODULES AE M6-72 Series 365W-385W

tested by  **Fraunhofer**
CSP

72

CELLS



**MICRO-CRACK
FREE**



**PID
RESISTANT**



**SALT CORROSION
RESISTANT**



**SAND
RESISTANT**



**AMMONIA
RESISTANT**



**HIGHLY STABLE
AND TOUGH**

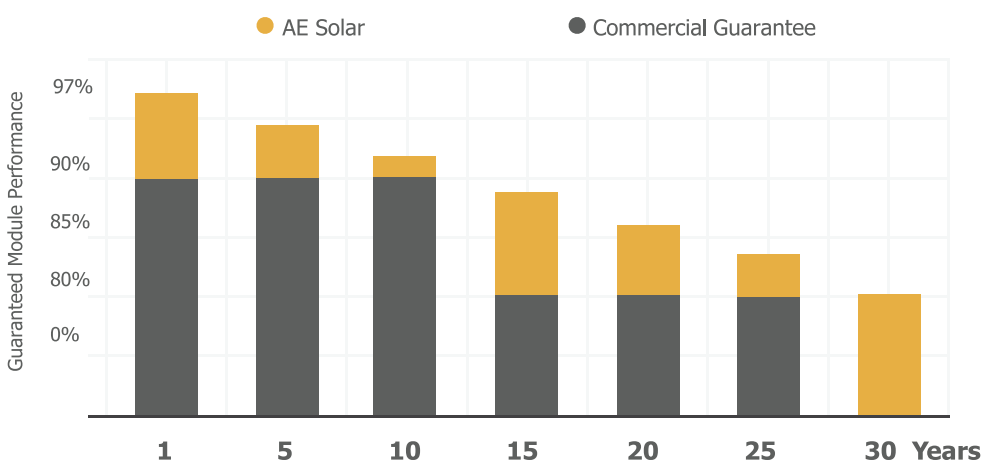
✓ GERMAN QUALITY
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⌚ PERFORMANCE GUARANTEE
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+ PLUS-SORTING
Higher yield due to plus-sorting from 0 up to +5 Wp guarantees the high system efficiency and yield stability.

📄 CERTIFICATES
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OUR PERFORMANCE GUARANTEE



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE M6-72 Series 365W-385W

SPECIFICATIONS

		AE365M6-72	AE370M6-72	AE375M6-72	AE380M6-72	AE385M6-72
Nominal Max. Power	Pmax (Wp)	365	370	375	380	385
Maximum power voltage	Vmp(V)	39.58	39.63	39.66	39.71	39.73
Maximum power current	Imp (A)	9.22	9.34	9.46	9.57	9.69
Open-circuit voltage	Voc(V)	47.42	47.48	47.53	47.59	47.81
Short-circuit current	Isc (A)	9.65	9.69	9.75	9.82	9.95
Module efficiency	(%)	18.81	19.07	19.33	19.58	19.84
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)	-0.38				
Temp. coefficients of Voc	(%/°C)	-0.29				
Temp. coefficients of Isc	(%/°C)	0.05				
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.

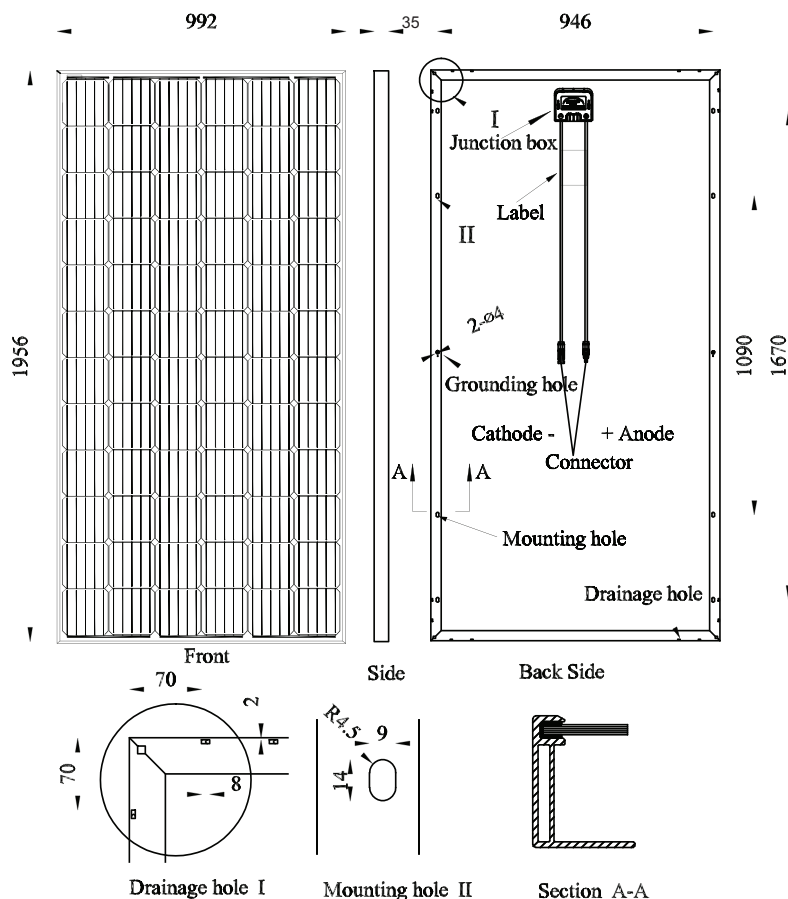
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 156.75mm × 156.75mm
No. of cells	72 (6 x 12)
Dimensions	1956 x 992 x 35 mm
Weight	21 kg
Junction box	IP 67 rated
Output cable	1 x 4.0mm ² , 1200mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 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	64 pcs / double pallet
Loading Capacity	768 pcs / 40HQ
Size / pallet (mm)	1985 x 1120 x 2390
Weight	1395 kg / pallet

DIMENSIONS



CERTIFICATES



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Inspiring green-energy since 2003



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

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PLUS-SORTING

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



PERFORMANCE GUARANTEE

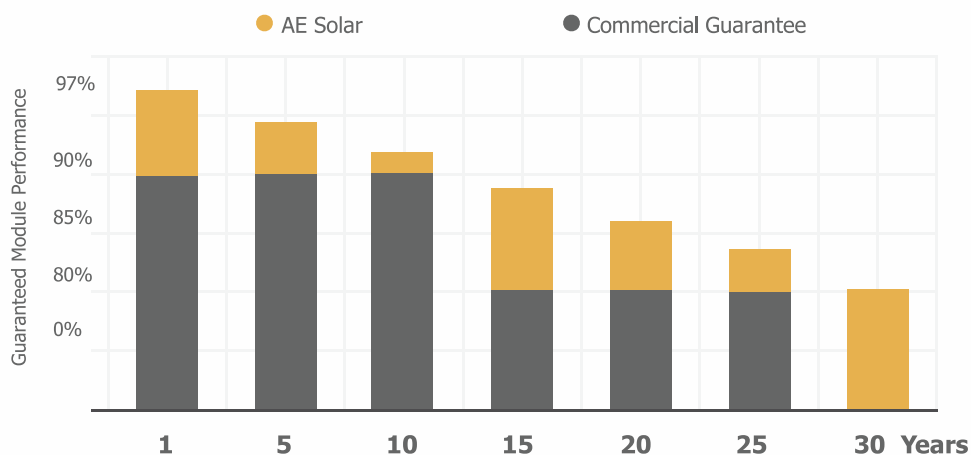
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CERTIFICATES

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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	P _{max} (Wp)	155	160	165	170	175
Maximum power voltage	V _{mp} (V)	17.90	18.32	18.73	19.15	19.56
Maximum power current	I _{mp} (A)	8.66	8.73	8.81	8.88	8.95
Open-circuit voltage	V _{oc} (V)	22.69	22.90	23.10	23.31	23.52
Short-circuit current	I _{sc} (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	P _{max} (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 P _{max}	(%/°C)	-0.40				
Temp. coefficients of V _{oc}	(%/°C)	-0.31				
Temp. coefficients of I _{sc}	(%/°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.

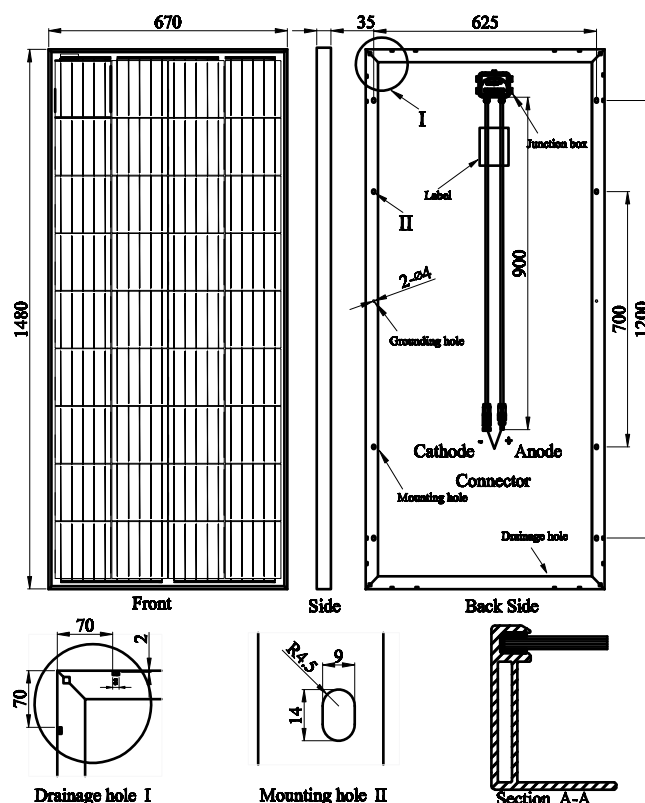
MATERIAL CHARACTERISTICS

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. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

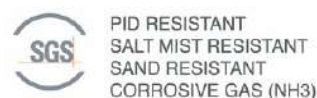
PACKAGING INFORMATION

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

DIMENSIONS



CERTIFICATES



FOR INNOVATIVE
SHADING RESISTANT
MODULES DEVELOPMENT

AES-DSH2019 V.002

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

60

CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT

NH₃
S

AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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PLUS-SORTING

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



PERFORMANCE GUARANTEE

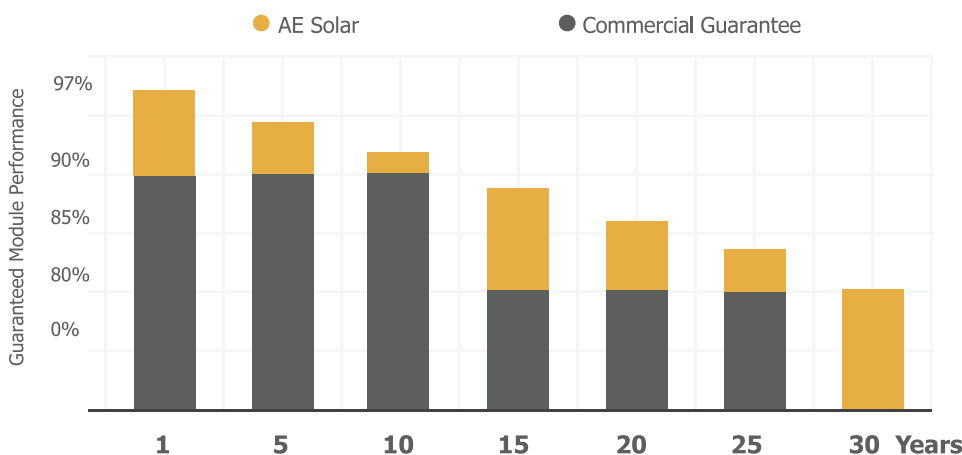
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CERTIFICATES

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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 _{max} (Wp)	265	270	275	280	285	290
Maximum power voltage	V _{mp} (V)	30.41	30.82	31.24	31.65	32.07	32.48
Maximum power current	I _{mp} (A)	8.71	8.76	8.80	8.85	8.89	8.93
Open-circuit voltage	V _{oc} (V)	38.10	38.31	38.52	38.72	38.93	39.14
Short-circuit current	I _{sc} (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 _{max} (Wp)	0 / + 5					
Maximum system voltage DC	(V)	1000					
Operating temperature	(°C)	-40 to +85					
Temp. coefficients of P _{max}	(%/°C)	-0.40					
Temp. coefficients of V _{oc}	(%/°C)	-0.31					
Temp. coefficients of I _{sc}	(%/°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.

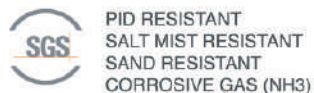
MATERIAL CHARACTERISTICS

Cell type	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 ² , 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 ²
Mechanical load	5400 Pa / 550 kg/m ²

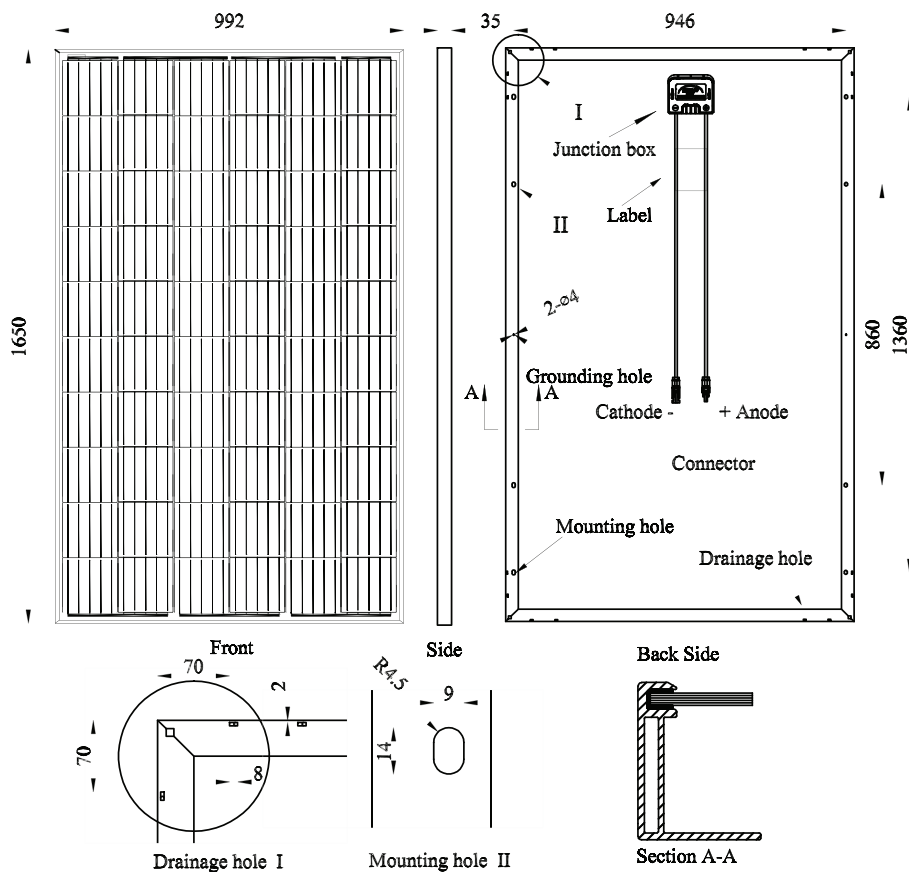
PACKAGING INFORMATION

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

CERTIFICATES



DIMENSIONS



AES-DSH2019 V.002

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AE SOLAR

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Web: www.ae-solar.com



Inspiring green-energy since 2003



AE POWERPLUS POLYCRYSTALLINE PV MODULES AE P6-72 Series 315W-345W

tested by **Fraunhofer**
CSP

72

CELLS



MICRO-CRACK
FREE



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



AMMONIA
RESISTANT



HIGHLY STABLE
AND TOUGH



GERMAN QUALITY

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PLUS-SORTING

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PERFORMANCE GUARANTEE

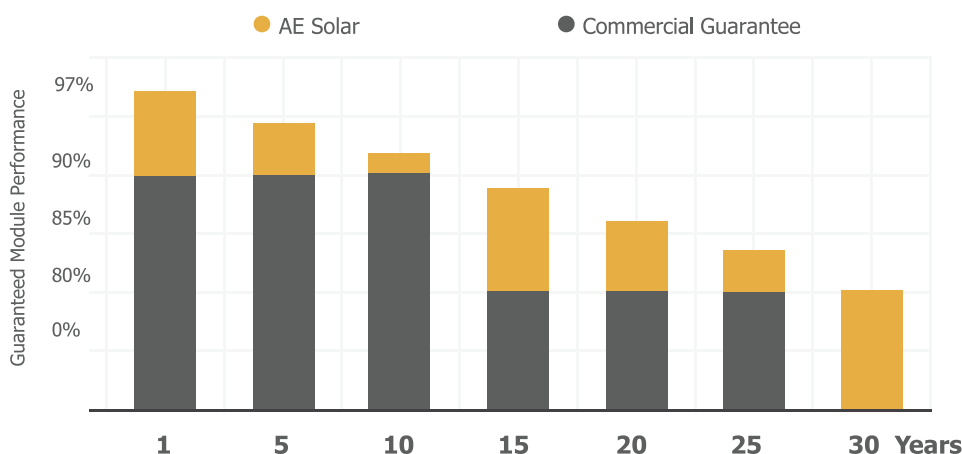
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CERTIFICATES

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OUR PERFORMANCE GUARANTEE



30
years

Performance
Guarantee

12
years

Product
Warranty



Deutsche
Qualität
Garantiert

TECHNICAL DATA

AE P6-72 Series 315W-345W

SPECIFICATIONS

		AE315P6-72	AE320P6-72	AE325P6-72	AE330P6-72	AE335P6-72	AE340P6-72	AE345P6-72
Nominal Max. Power	P _{max} (Wp)	315	320	325	330	335	340	345
Maximum power voltage	V _{mp} (V)	36.66	36.75	36.83	36.97	37.05	37.09	37.18
Maximum power current	I _{mp} (A)	8.59	8.71	8.82	8.93	9.04	9.17	9.28
Open-circuit voltage	V _{oc} (V)	45.59	45.72	45.83	45.89	45.93	45.97	46.01
Short-circuit current	I _{sc} (A)	9.24	9.28	9.33	9.37	9.41	9.44	9.48
Module efficiency	(%)	16.23	16.49	16.75	17.01	17.26	17.52	17.78
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)	1000						
Operating temperature	(°C)	-40 to +85						
Temp. coefficients of P _{max}	(%/°C)	-0.40						
Temp. coefficients of V _{oc}	(%/°C)	-0.31						
Temp. coefficients of I _{sc}	(%/°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	Poly-crystalline 156.75mm × 156.75mm
No. of cells	72 (6 x 12)
Dimensions	1956 x 992 x 35mm
Weight	20 kg
Junction box	IP 67 MC 4 compatible
Output cable	1 x 4.0mm ² , 1200mm 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 ²
Mechanical load	5400 Pa / 550 kg/m ²

PACKAGING INFORMATION

Packing configuration	64 pcs/double pallet
Loading Capacity	768 pcs / 40HQ
Size / pallet (mm)	1985 x 1120 x 2390
Weight	1395 kg /double pallet

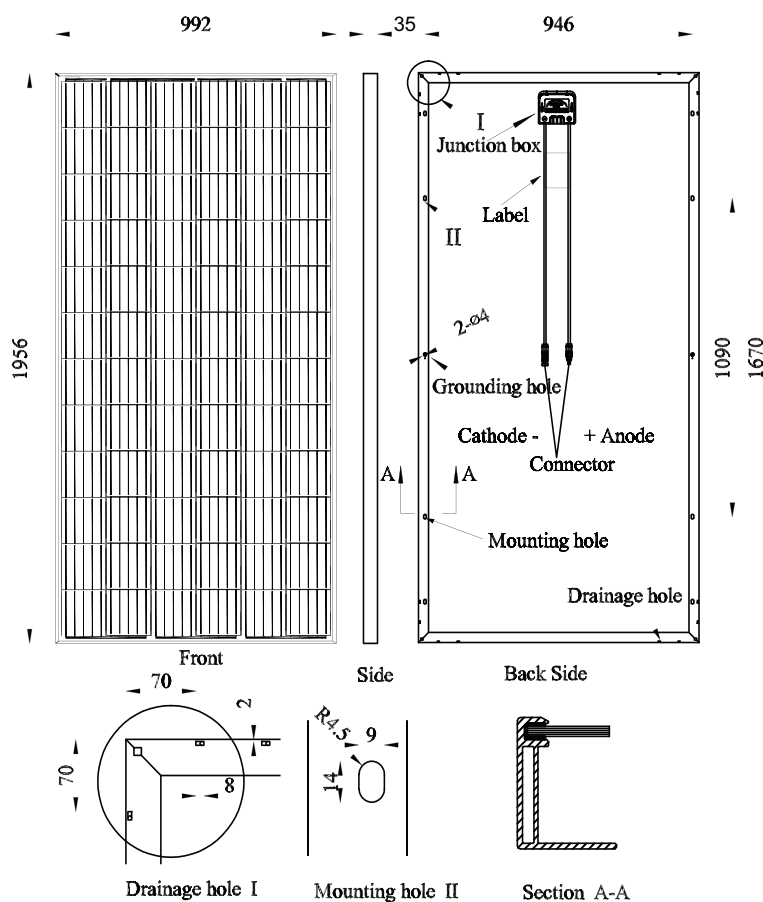
CERTIFICATES



AES-DSH2019 V.002

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DIMENSIONS



AE THUNDER MODULE



30
years
Performance
Guarantee

12
years
Product
Warranty



HUNDER

POWERFUL, EFFICIENT, STEADY



BY



TECHNICAL DATA

AE HM6-60 Series 380W-400W

SPECIFICATIONS

		AE380HM6-60	AE385HM6-60	AE390HM6-60	AE395HM6-60	AE400HM6-60
Nominal Max. Power	P _{max} (Wp)	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	40.6	40.8	40.8	40.9	41.0
Maximum power current	I _{mp} (A)	9.39	9.44	9.56	9.66	9.76
Open-circuit voltage	V _{oc} (V)	49.1	49.3	49.3	49.4	49.6
Short-circuit current	I _{sc} (A)	9.93	9.96	10.03	10.07	10.12
Module efficiency	(%)	20.3	20.5	20.8	21.1	21.3
Power tolerance	P _{max} (Wp)	0 / + 4.99				
Maximum system voltage DC	V _{DC} (IEC)	1500				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of P _{max}	(%/°C)	-0.34				
Temp. coefficients of V _{oc}	(%/°C)	-0.27				
Temp. coefficients of I _{sc}	(%/°C)	0.04				
Nom. Operating cell temp.(NOCT)	(°C)	42.3±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	PERC Mono-crystalline 158.75 x 158.75mm
Dimensions	1646 X 1140 X 35 mm
Weight	20.5 kg
Junction box	IP67; TUV&UL
Output cable	1 x 4.0mm ² /1000mm
Connector type	MC4 / MC4 compatible
Hail resistance	Diameter of 1m. Ø 25 mm, at 23 m/s
Wind load	2400 PA / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

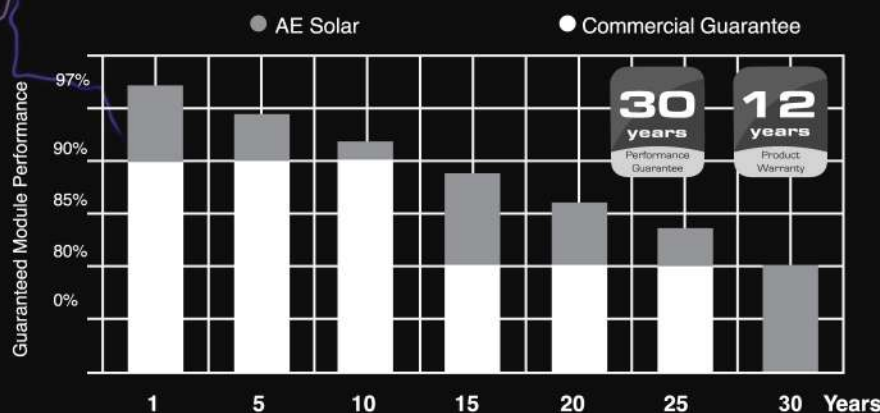
PACKAGING INFORMATION

Packing configuration	62pcs / double pallet
Loading Capacity	868pcs / 40HQ
Size / pallet (mm)	1685 x 1135 x 2490
Weight	1370 kg / double pallet

CERTIFICATES



OUR PERFORMANCE GUARANTEE



THE SOLAR INDUSTRY IS ADVANCING AT A RAPID PACE. SOLAR EQUIPMENT CONTINUES TO BECOME MORE POWERFUL AND MORE RESILIENT WHILE BECOMING LESS EXPENSIVE. THUNDER IS THE MOST EFFICIENT NEXT-GENERATION SOLAR PANELS SERIES CREATED BY AE SOLAR. A WINNING COMBINATION OF HIGHEST-WATTAGE AND MODERN AESTHETIC GUARANTEES TO MAXIMIZE YOUR BENEFIT FROM A SOLAR INVESTMENT.

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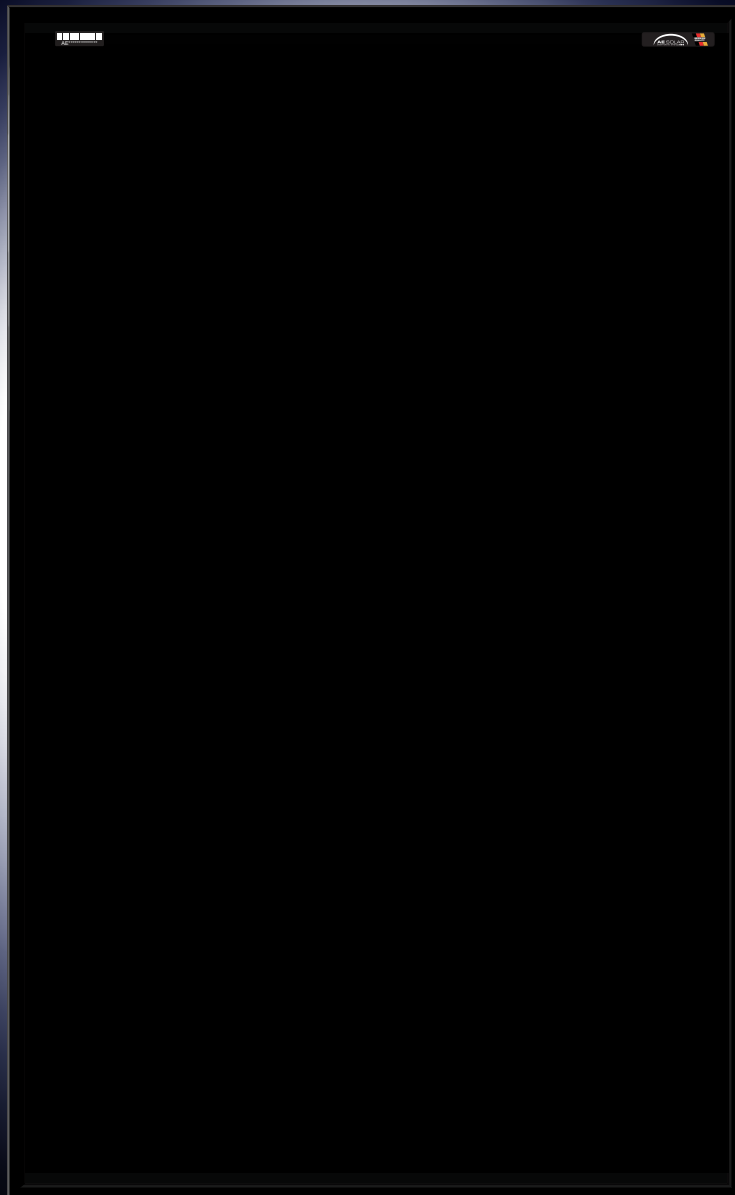
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Web: www.ae-solar.com

AE ECLIPSE SOLAR MODULES





AE HM6L-60



ECLIPSE ^{345W-350W}
ULTRA BLACK
series

TECHNICAL DATA

AE HM6L-60 Series 345W-350W

SPECIFICATIONS

SPECIFICATIONS		AE345HM6L-60				AE350HM6L-60		
Nominal Max. Power	Pmax (Wp)	345				350		
Maximum power voltage	Vmp(V)			34.95		35.21		
Maximum power current	Imp (A)	9.87				9.94		
Open-circuit voltage	Voc (V)			42.23		42.52		
Short-circuit current	Isc (A)	10.38				10.46		
Module efficiency	(%)			20.45		20.74		
Power tolerance	Pmax (Wp)	0 / + 5						
Maximum system voltage DC	(V)				1500			
Maximum series fuse rating	(A)	15						
Operating temperature	(°C)				-40 to +85			
Temp. coefficients of Pmax	(%/°C)	-0.34						
Temp. coefficients of Voc	(%/°C)				-0.27			
Temp. coefficients of Isc	(%/°C)	0.035						
Nom. Operating cell temp.(NOCT)	(°C)				44±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.

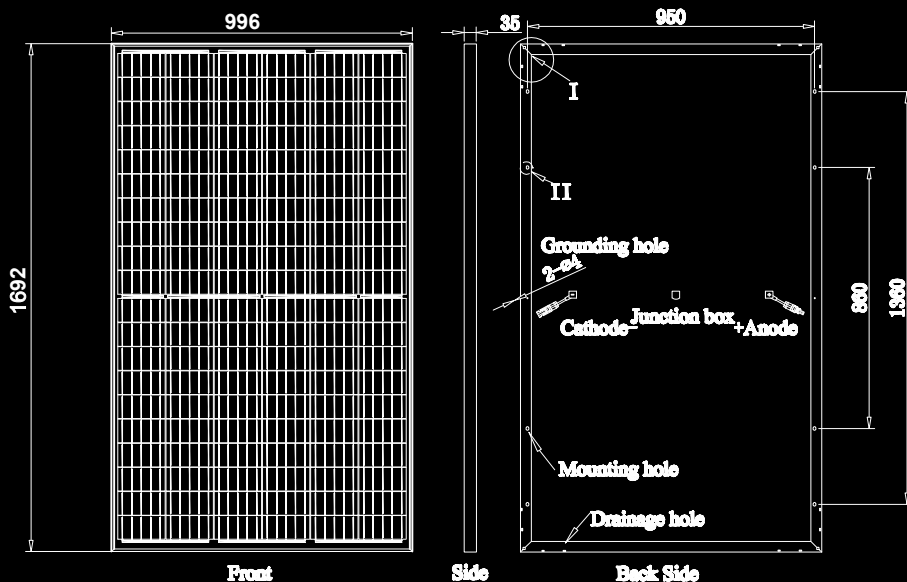
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 79.38
No. of cells	60 (6 x 10)
Dimensions	1692 X 996 X 35
Weight	18.5 kg
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² , 350mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

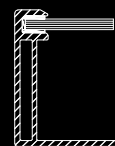
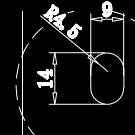
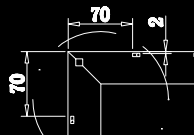
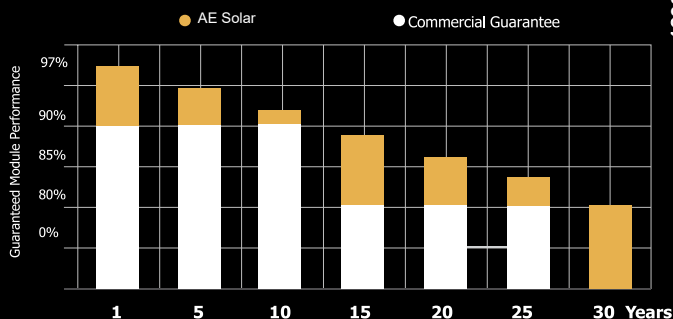
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	832 pcs / 40HQ
Size / pallet (mm)	1720 x 1135 x 2395
Weight	1335 kg / double pallet

DIMENSIONS



OUR PERFORMANCE GUARANTEE



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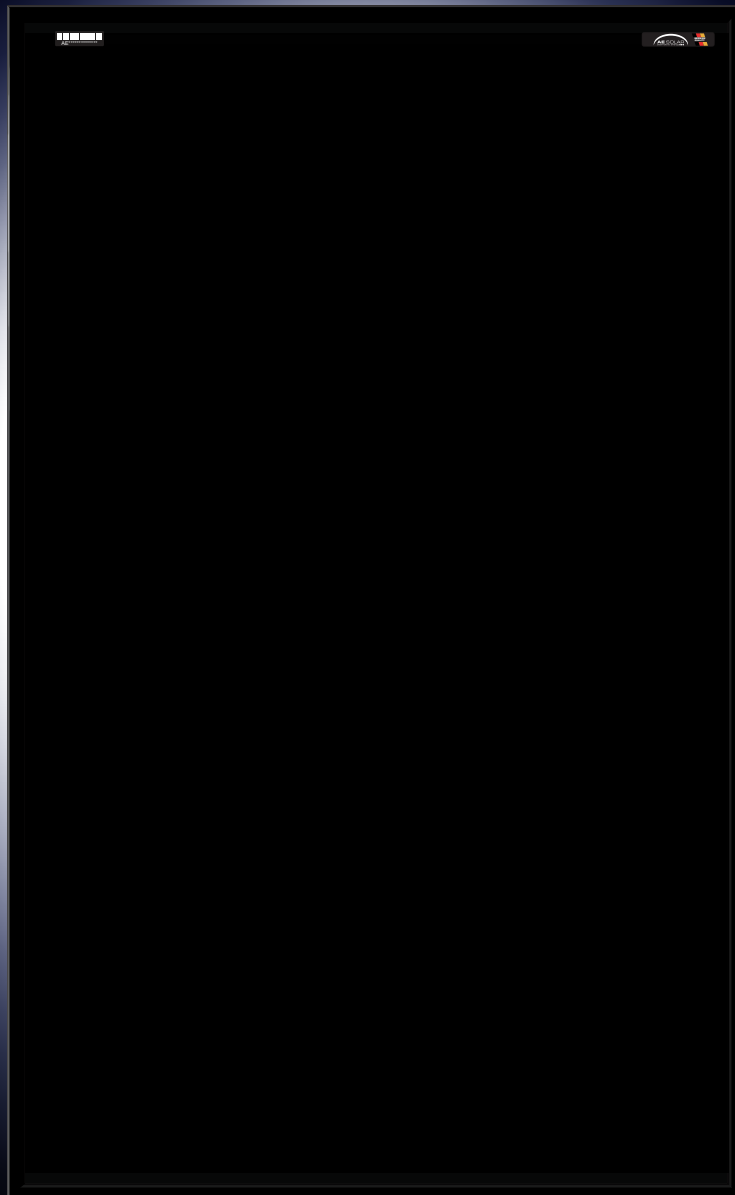
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AE HM6-60



305W-335W
ECLIPSE
ULTRA BLACK
series



TECHNICAL DATA

AE HM6-60 Series 305W-335W

SPECIFICATIONS

		AE305HM6-60	AE310HM6-60	AE315M6-60	AE320HM6-60	AE325HM6-60	AE330HM6-60	AE335HM6-60
Nominal Max. Power	P _{max} (Wp)	305	310	315	320	325	330	335
Maximum power voltage	V _{mp} (V)	32.80	33.00	33.20	33.40	33.61	34.81	34.02
Maximum power current	I _{mp} (A)	9.30	9.40	9.49	9.59	9.68	9.76	9.85
Open-circuit voltage	V _{oc} (V)	40.31	40.50	40.70	40.90	41.10	41.31	41.89
Short-circuit current	I _{sc} (A)	9.83	9.92	10.04	10.15	10.20	10.37	10.49
Module efficiency	(%)	18.39	18.69	18.99	19.30	19.60	19.90	20.20
Power tolerance	P _{max} (Wp)	0 / + 5						
Maximum system voltage DC	(V)				1500			
Maximum series fuse rating	(A)				15			
Operating temperature	(°C)				-40 to +85			
Temp. coefficients of P _{max}	(%/°C)				-0.34			
Temp. coefficients of V _{oc}	(%/°C)				-0.27			
Temp. coefficients of I _{sc}	(%/°C)				0.035			
Nom. Operating cell temp.(NOCT)	(°C)				44±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.

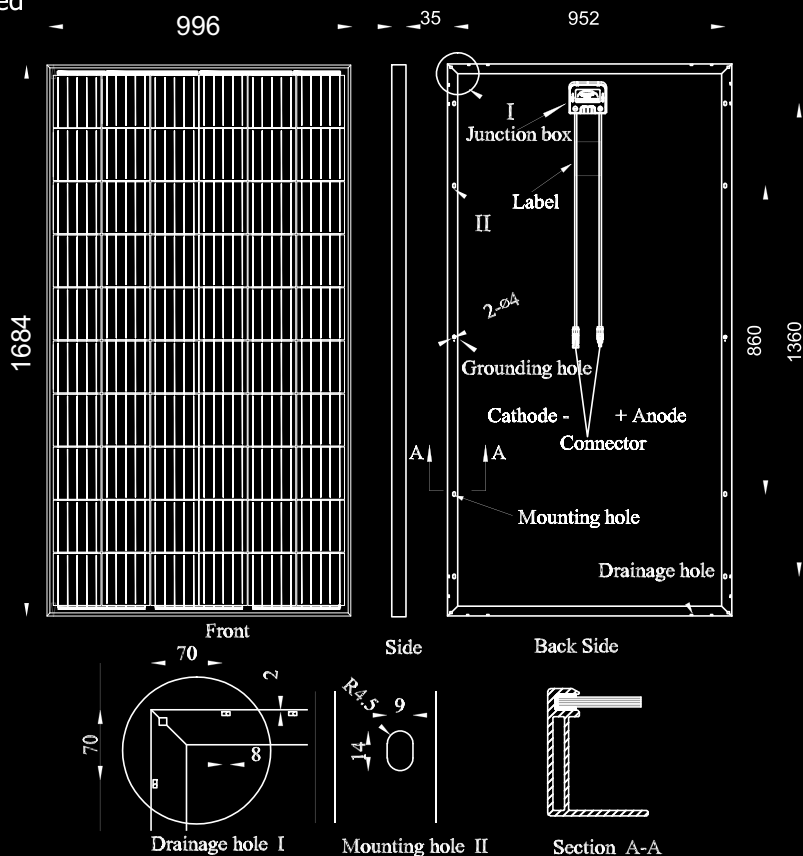
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1665 X 996 X 35
Weight	18.5 kg
Junction box	IP 68 rated
Output cable	1 x 4.0mm ² , 900mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

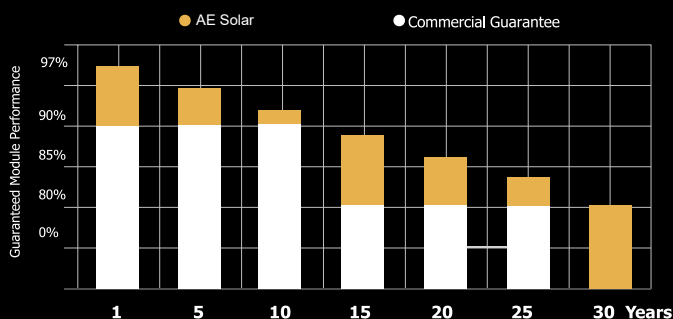
PACKAGING INFORMATION

Packing configuration	64 pcs / double pallet
Loading Capacity	896 pcs / 40HQ
Size / pallet (mm)	1695 x 1135 x 2395
Weight	1283 kg / double pallet

DIMENSIONS



OUR PERFORMANCE GUARANTEE



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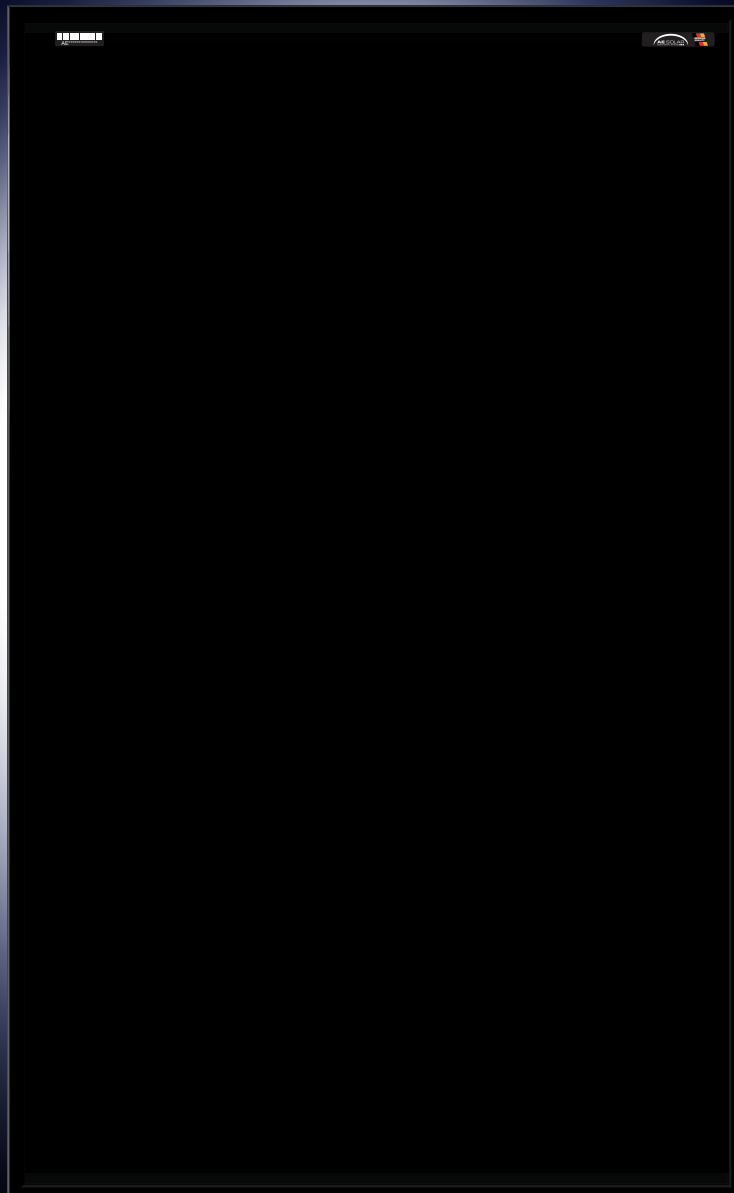
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AE HM6-60



ECLIPSE ^{380W-400W} PLUS
ULTRA BLACK
series



TECHNICAL DATA

AE HM6-60 Series 380W - 400W

SPECIFICATIONS

AE380HM6-60 AE385HM6-60 AE390HM6-60 AE395HM6-60 AE400HM6-60

Nominal Max. Power	P _{max} (Wp)	380	385	390	395	400
Maximum power voltage	V _{mp} (V)	40.6	40.8	40.8	40.9	41.0
Maximum power current	I _{mp} (A)	9.36	9.44	9.56	9.66	9.76
Open-circuit voltage	V _{oc} (V)	49.1	49.3	49.3	49.4	49.6
Short-circuit current	I _{sc} (A)	9.36	9.44	9.56	9.66	9.76
Module efficiency	(%)	20.3	20.5	20.8	21.1	21.3
Power tolerance	P _{max} (Wp)	0 / + 5				
Maximum system voltage DC	(V)	1500				
Maximum series fuse rating	(A)	20				
Operating temperature	(°C)	-40 to +85				
Temp. coefficients of P _{max}	(%/°C)	-0.34				
Temp. coefficients of V _{oc}	(%/°C)	-0.27				
Temp. coefficients of I _{sc}	(%/°C)	0.04				
Nom. Operating cell temp.(NOCT)	(°C)	44±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.

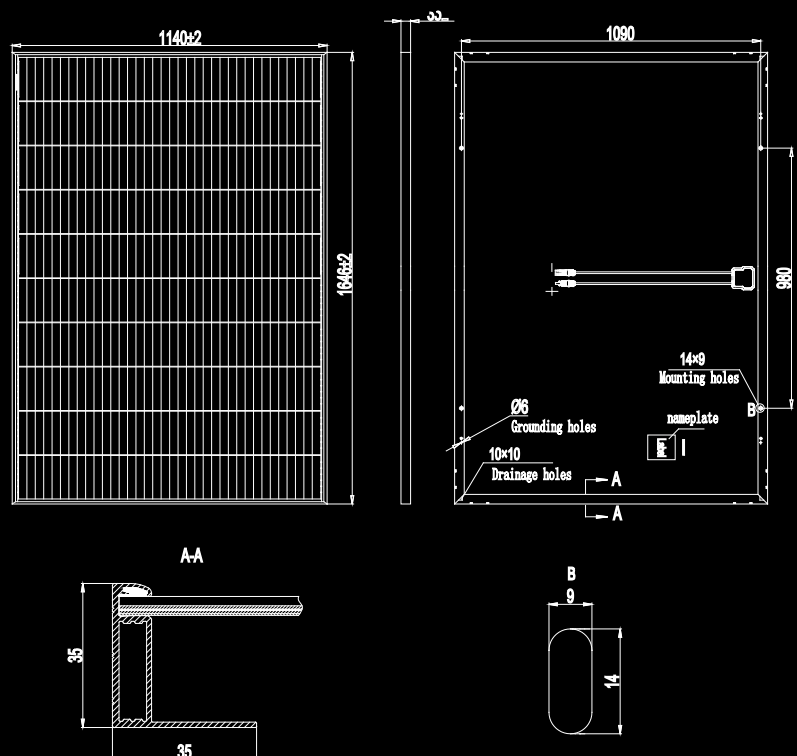
MATERIAL CHARACTERISTICS

Cell type	Mono-crystalline 158.75 x 158.75mm
No. of cells	60 (6 x 10)
Dimensions	1646 X 1140 X 35
Weight	20.5 kg
Junction box	IP 67 rated
Output cable	1 x 4.0mm ² , 1000mm length or customised
Connector type	MC 4 / MC 4 compatible
Hail resistance	Max. Ø 28 mm, at 23 m/s
Wind load	2400 Pa / 244 kg/m ²
Mechanical load	5400 Pa / 550 kg/m ²

PACKAGING INFORMATION

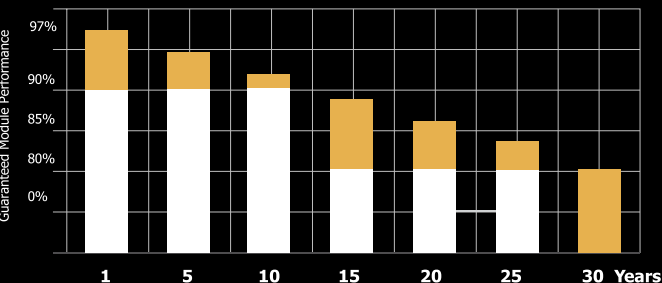
Packing configuration	64 pcs / double pallet
Loading Capacity	868 pcs / 40HQ
Size / pallet (mm)	1695 x 1135 x 2400
Weight	1283 kg / double pallet

DIMENSIONS



OUR PERFORMANCE GUARANTEE

● AE Solar ● Commercial Guarantee



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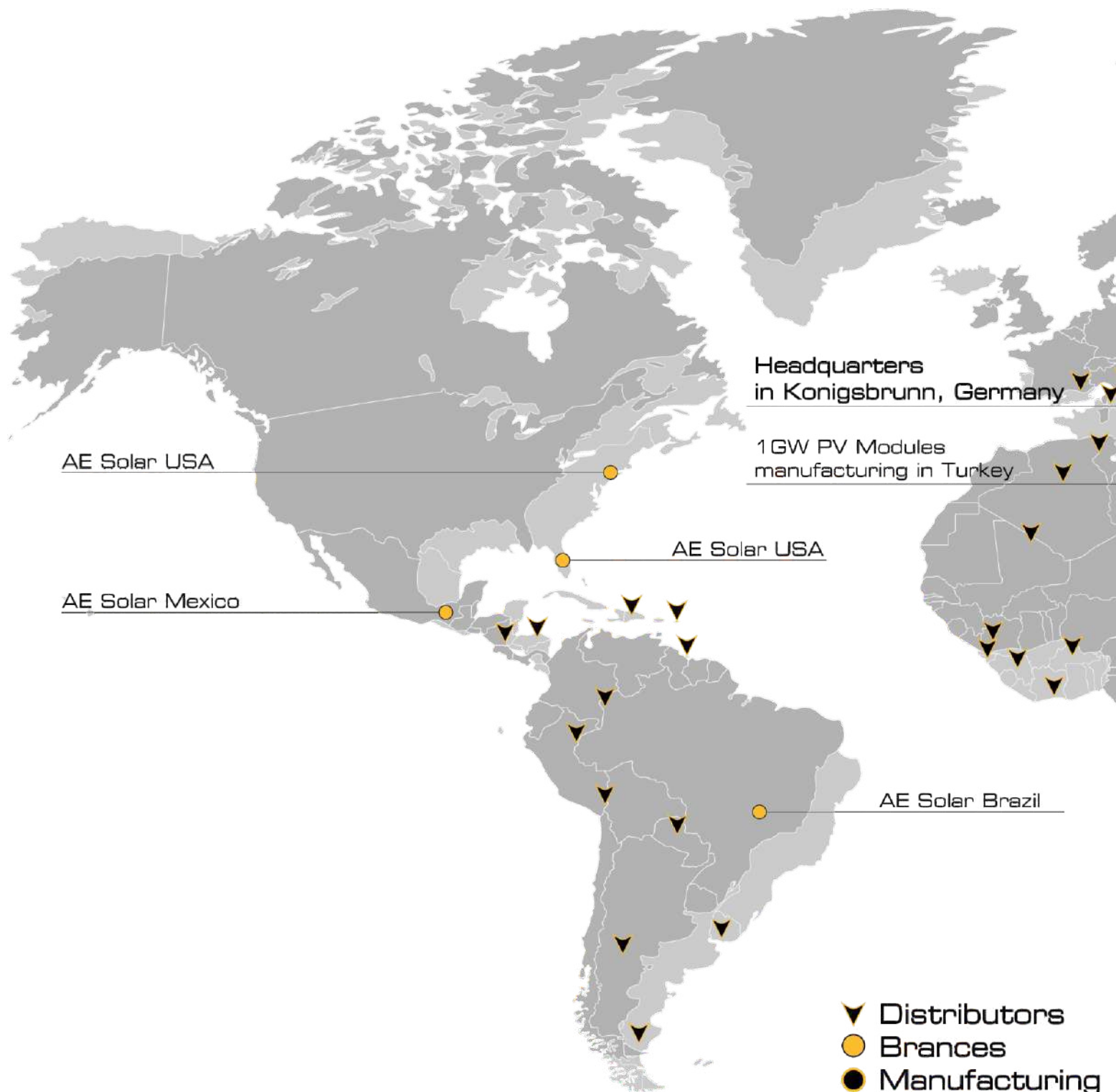
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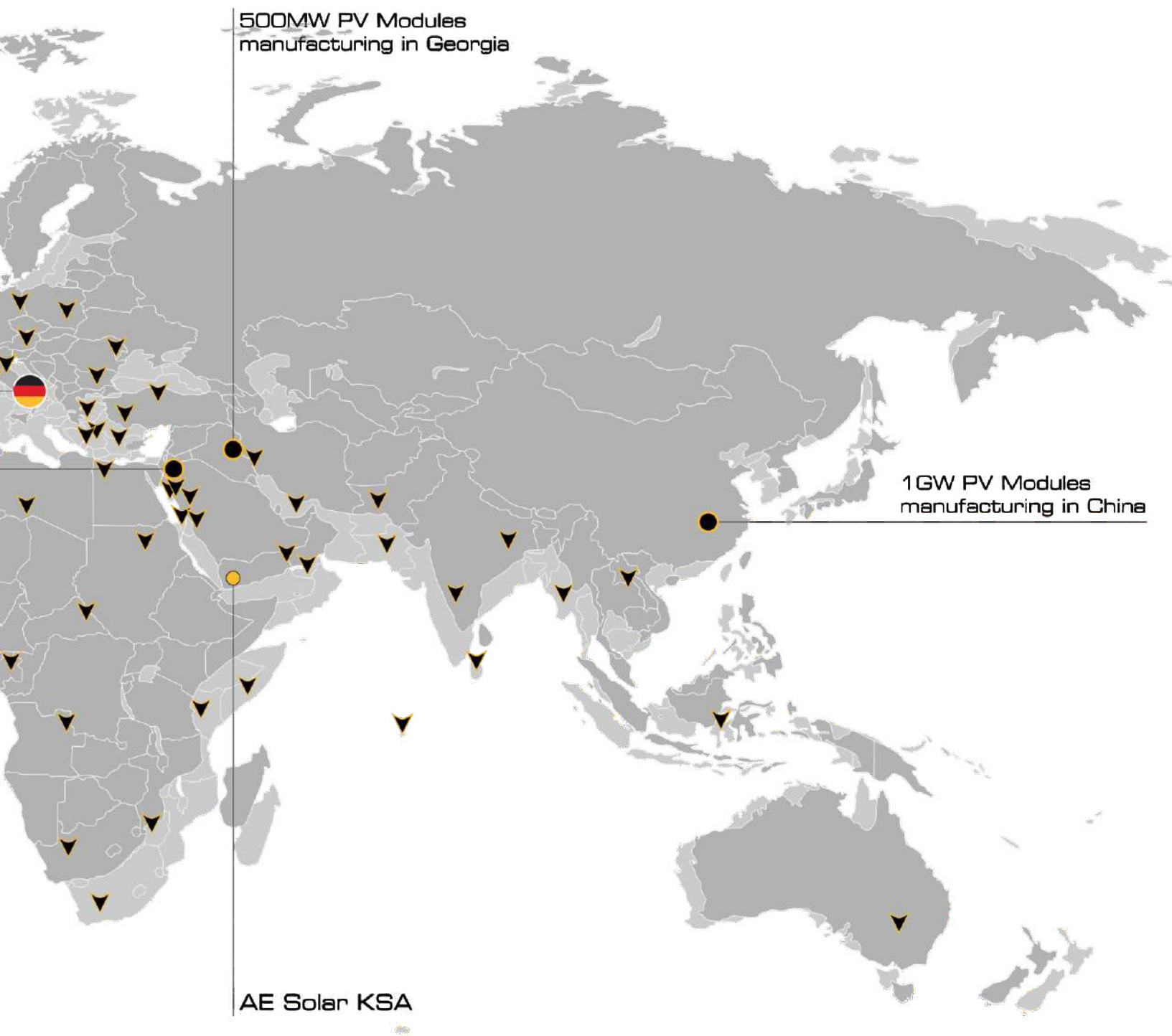
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AE SOLAR ON MAP







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Top design 2020



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PV magazine 2018 Top
innovationaward.



2017

SNEC 2017 PV Power Expo
Top 10 Highlights award.



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