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Solar Panel Guide Specification Data Sheet

**AE Solar
AE SGM 390W-420W (Full Black Optional)
AE SGM6-72 420W**

Also available on the web at
EnergyPal.com/ae-solar-solar-panels/ae-sgm6-72-420w



Inspiring green-energy since 2003

PERC TECHNOLOGY

AE SHINGLED PV MODULES

MONOCRYSTALLINE PV MODULES

AE SGM6-72 Series 390W-415W



72 CELLS	PID RESISTANT	SALT CORROSION RESISTANT	SAND RESISTANT	NH₃ S AMMONIA RESISTANT	HIGHLY STABLE AND TOUGH
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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

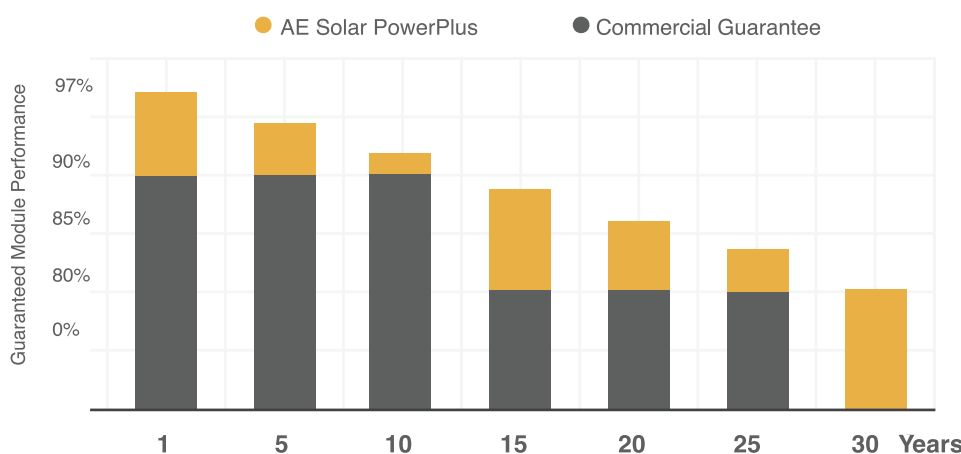
SYSTEM COST REDUCED
10% of Reduction in BOS and Installation cost

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

SGM6 SERIES SOLAR MODULE

SPECIFICATIONS

		SGM6-390	SGM6-395	SGM6-400	SGM6-405	SGM6-410	SGM6-415
Nominal Max. Power	P _{max} (Wp)	390	395	400	405	410	415
Maximum power voltage	V _{mp} (V)	37.1	37.2	37.3	37.4	37.5	37.6
Maximum power current	I _{mp} (A)	10.51	10.62	10.72	10.83	10.93	11.04
Open-circuit voltage	V _{oc} (V)	45.1	45.2	45.2	45.3	45.3	45.4
Short-circuit current	I _{sc} (A)	11.27	11.31	11.35	11.39	11.43	11.47
Module efficiency	(%)	18.8	19.0	19.3	19.5	19.7	20.0
Power tolerance	P _{max} (Wp)					0 / + 5	
Maximum system voltage DC	V _{DC} (IEC)					1000/1500	
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)					0.05	
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.

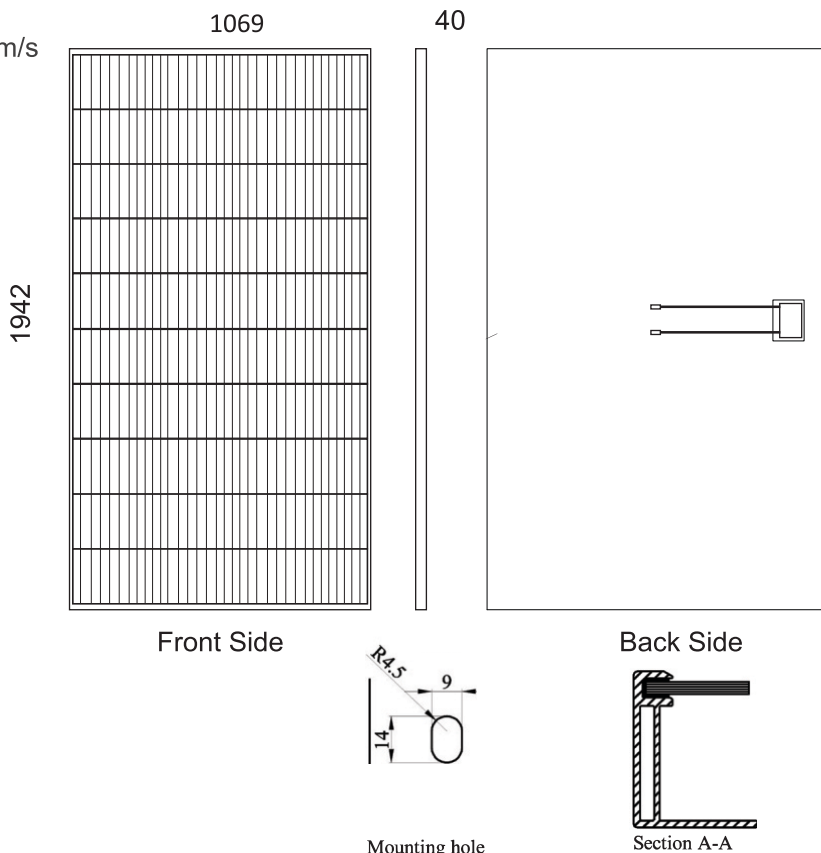
MATERIAL CHARACTERISTICS

Cell type	Perc Mono-crystalline silicon solar cells
Dimensions	1942 x 1069 x 40 mm
Weight	24.0 kg
Junction box	15A; TUV&UL;
Output cable	1200mm/4mm ²
Connector type	compatibility MC 4
Hail resistance	Diameter of 1m. Ø 25 mm, at 23 m/s
Mechanical load	5400 Pa

PACKAGING INFORMATION

Packing configuration	52 pcs / double pallet
Loading Capacity	624 pcs / 40HQ
Size / pallet (mm)	1980 x 1120 x 2380
Weight	1364 kg / double pallet

DIMENSIONS



CERTIFICATES



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