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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

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

Also available on the web at  
[EnergyPal.com/ae-solar-solar-panels/ae-sgm6-72-390w](http://EnergyPal.com/ae-solar-solar-panels/ae-sgm6-72-390w)



Inspiring green-energy since 2003

## PERC TECHNOLOGY

### AE SHINGLED PV MODULES

### MONOCRYSTALLINE PV MODULES

### AE SGM6-72 Series 390W-415W



<b>72</b> CELLS	<b>PID</b> RESISTANT	<b>SALT CORROSION</b> RESISTANT	<b>SAND</b> RESISTANT	<b>NH<sub>3</sub></b> <b>S</b> AMMONIA RESISTANT	<b>HIGHLY STABLE</b> 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

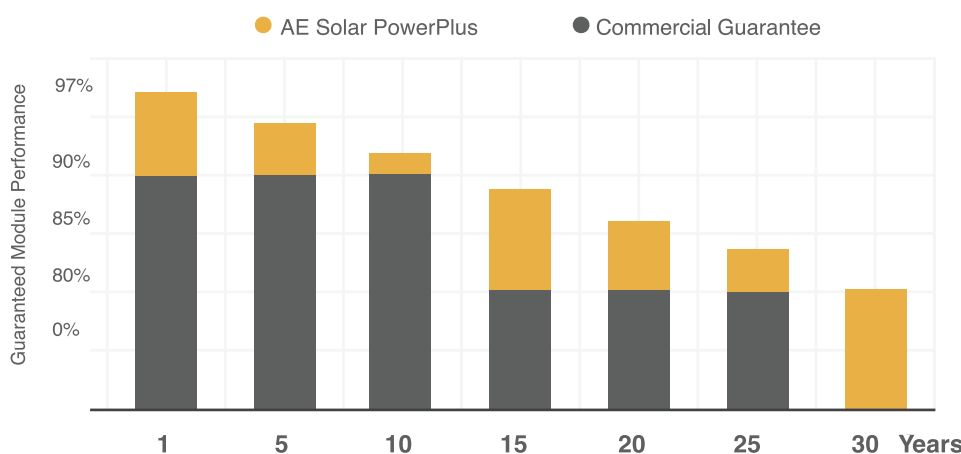
**SYSTEM COST REDUCED**  
10% of Reduction in BOS and Installation cost

**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 <sub>max</sub> (Wp)	390	395	400	405	410	415
Maximum power voltage	V <sub>mp</sub> (V)	37.1	37.2	37.3	37.4	37.5	37.6
Maximum power current	I <sub>mp</sub> (A)	10.51	10.62	10.72	10.83	10.93	11.04
Open-circuit voltage	V <sub>oc</sub> (V)	45.1	45.2	45.2	45.3	45.3	45.4
Short-circuit current	I <sub>sc</sub> (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 <sub>max</sub> (Wp)					0 / + 5	
Maximum system voltage DC	V <sub>DC</sub> (IEC)					1000/1500	
Operating temperature	(°C)					-40 to +85	
Temp. coefficients of P <sub>max</sub>	(%/°C)					-0.40	
Temp. coefficients of V <sub>oc</sub>	(%/°C)					-0.31	
Temp. coefficients of I <sub>sc</sub>	(%/°C)					0.05	
Nom. Operating cell temp.(NOCT)	(°C)					42.3±2	

The electrical data apply to standard test conditions (STC): Irradiance of 1000 W/m<sup>2</sup> with spectrum AM 1.5 and a cell temperature of 25°C.

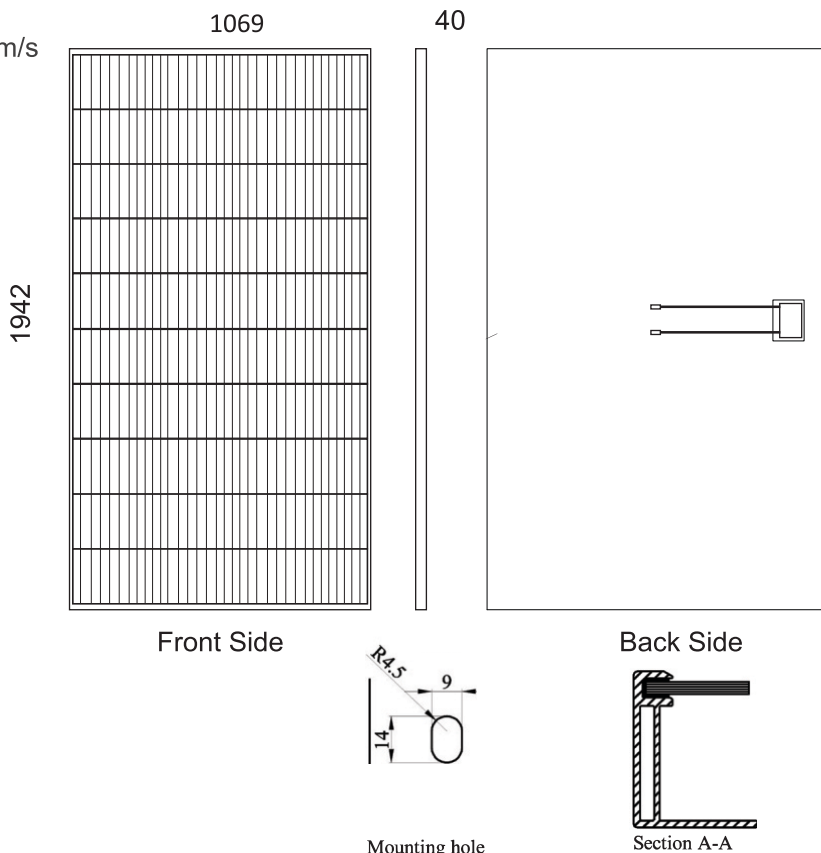
### MATERIAL CHARACTERISTICS

Cell type	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 <sup>2</sup>
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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