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# **EnergyPal**

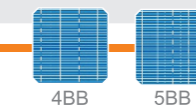
## **Solar Panel Guide Specification Data Sheet**

**Alfa Solar Energy Inc.**

**ASE72M 360-380**

**ASE72M 380**

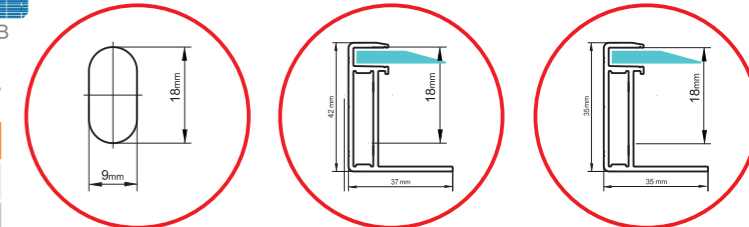
Also available on the web at  
[EnergyPal.com/alfa-solar-energy-inc-solar-panels/ase72m-380](http://EnergyPal.com/alfa-solar-energy-inc-solar-panels/ase72m-380)



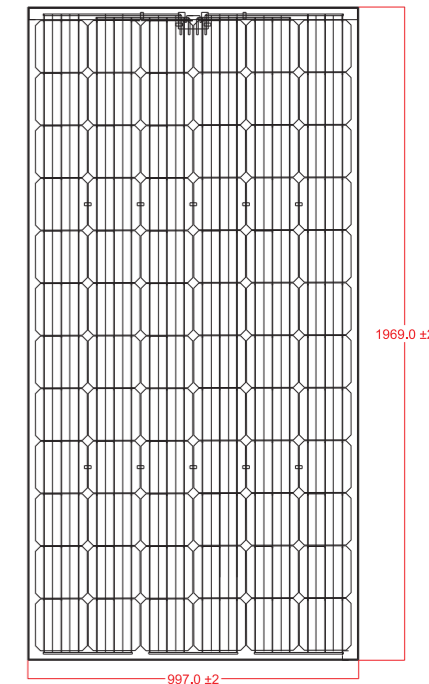
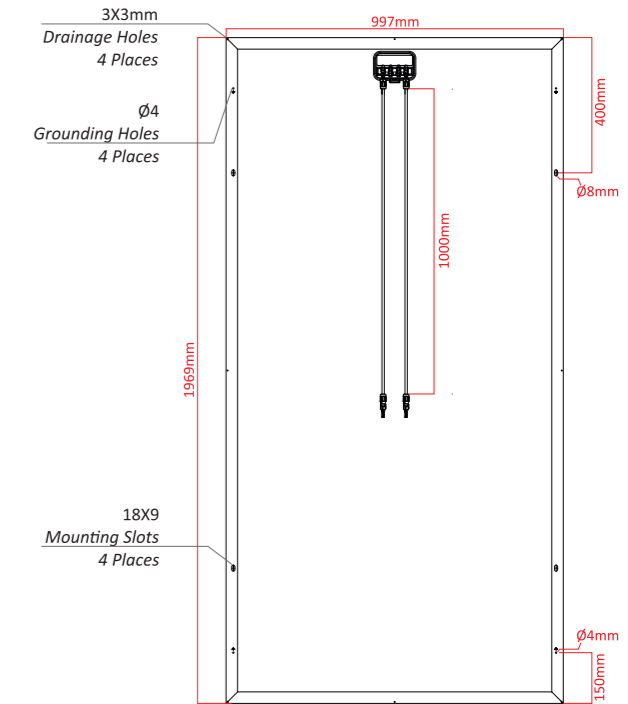
Mounting Slot

Frame

Frame



FRAME CAN BE MANUFACTURED WITH TWO DIFFERENT MEASUREMENT OPTIONS.



### Electrical Data

MODEL	ASE72M 360	ASE72M 365	ASE72M 370	ASE72M 375	ASE72M 380
<b>P<sub>max</sub></b>	360	365	370	375	380
<b>%</b>	18,34	18,59	18,85	19,10	19,36
<b>I<sub>mp</sub> (A)</b>	9,28	9,30	9,35	9,37	9,39
<b>I<sub>sc</sub> (A)</b>	9,83	9,85	9,84	9,85	9,86
<b>V<sub>mp</sub> (V)</b>	39,20	39,60	40,00	40,03	40,09
<b>V<sub>oc</sub> (V)</b>	47,16	47,44	48,00	48,10	48,20

### Technical Specifications

### Mechanical Data

Subject	Specification
Dimensions	1969 ± 2 mm (L) x 997 ± 2 mm (W) x 42-35 0,5 mm (D)
Weight	24 Kg
Solar Cell	72 Monocrystalline Type 6" Silicon Cells (156.75 mm x 156.75 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsulant	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color White
Junction Box	With Multicontact / Tyco / Ekinler Certificate
Frame	Aluminium Frame (Eloxal Coating)

### Operating Conditions

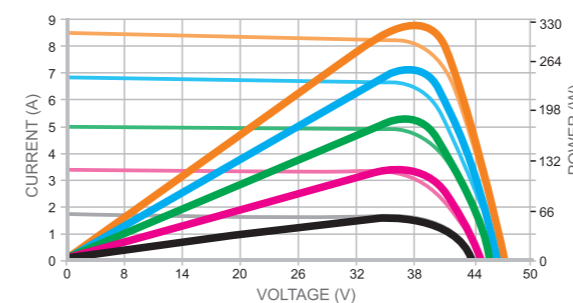
Subject	Specification
Mechanical Strength	5400 Pa (Certified By TUV Rheinland)
Maximum System Voltage	DC 1000 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

### Temperature Characteristics

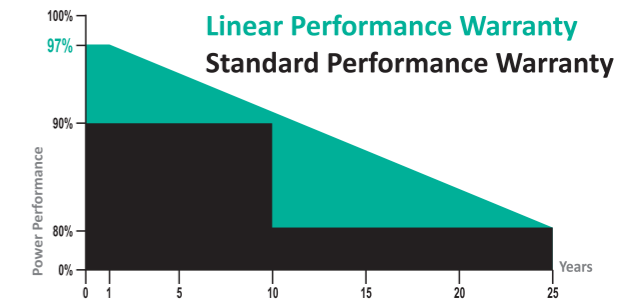
Subject	Specification
Nominal Operating Cell Temperature	44 °C ± 2 °C
Temperature Coefficient of I <sub>sc</sub> (%/°C)	-0,04 % / °C
Temperature Coefficient of V <sub>oc</sub> (%/°C)	-0,31 % / °C
Temperature Coefficient of P <sub>max</sub> Y (%/°C)	-0,42 % / °C
Temperature Coefficient of V <sub>mpp</sub> (%/°C)	-0,42 % / °C

### Warranty

Subject	Specification
Product Warranty	10 Years
Linear Performance Warranty	10 Years, over %90 - 25 Years, over %80
JIT Product	Warranty of selling panels that are produced in last on year.
Power Tolerance	Positive (+) 5 Watt
Online Datasheet on the panel	QR Code System



The typical relative change in module efficiency at irradiance of 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> (both at 25 °C and AM 1.5 spectrum) is less than 3%.



**Electroluminescence:** Quality control for small microcracks with infrared radiation.

**+5 Sun Simulator:** 1000 W/m<sup>2</sup> radiation, 25°C temperature, +5 positive power tolerance and classification according to power tolerance.

**Salt Mist Test:** According to IEC 61701 ed.2 Salt Resistance

**Snow Load Test:** Under 5400 Pa snow load resistance according to IEC 61215

**Ammonia Corrosion Test:** Corrosion resistance according to IEC 62716

**PID Potential Induced Degradation:** PID Resistance according to IEC 62804

**5400Pa Wind Load Test:** Under 5400 Pa wind load resistance according to IEC 61215

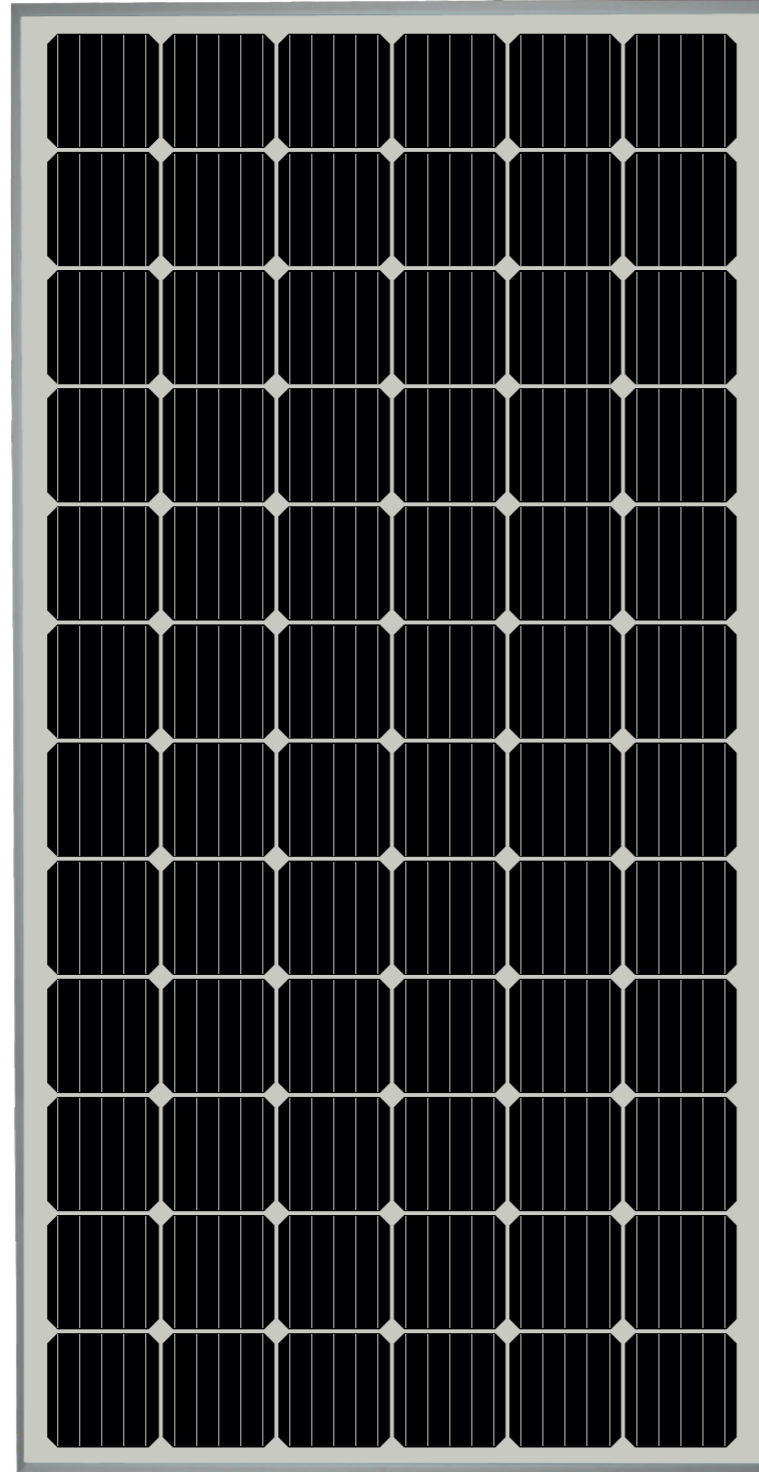
**%200 Thermal Cycles Damp Heat Test:** 1000 hours damp heat and 200 thermal cycles according to IEC 61215

**High Performance in Low Radiation :** On cloudy days, morning and evening over %3 performance (200 w/m<sup>2</sup>)

**FF % Fill Factor:** High Fill Factor value, increased power.  
**Cell Power:** Five bus bar, with high power.

**QR KAREKOD QR Code System:** Real power measurements of modules which have +5 power tolerance ease of viewing with QR Code.

**JIT Just in Time Production:** Production date is in panels glass, unchangeable and warranty of selling production in that are produced in last one year.



- ISO 9001
- ISO 14001
- ISO 18001
- IEC 61215
- IEC 61730-1
- IEC 61730-2
- IEC 61701
- IEC 62716
- IEC 62804

**"LOCAL ITEM" MENTIONED IN NUMBER 5346 YEK LAW**



**TUV AAA+ SIMULATOR DOMESTIC QR CODE**