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# **EnergyPal**

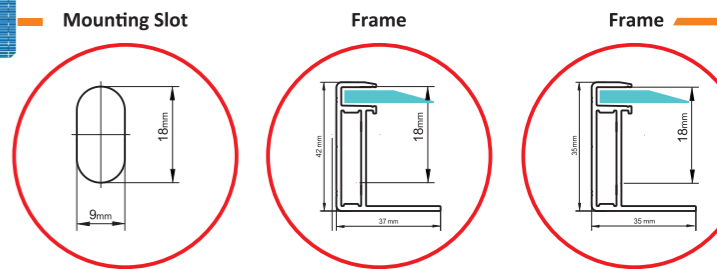
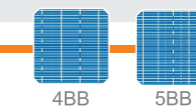
## **Solar Panel Guide Specification Data Sheet**

**Alfa Solar Energy Inc.**

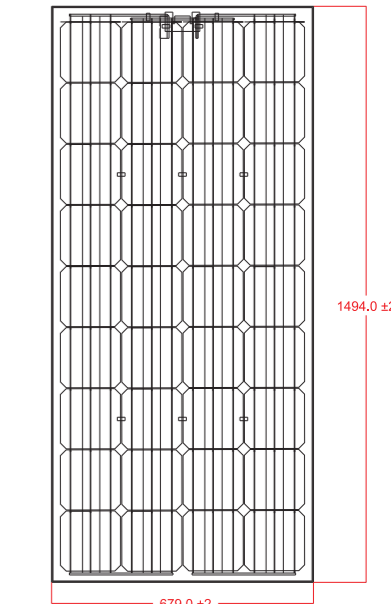
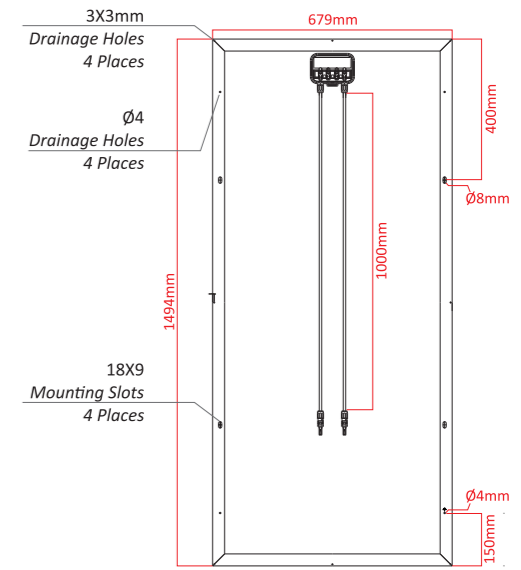
**ASE36M 175-185**

**ASE36M175**

Also available on the web at  
[EnergyPal.com/alfa-solar-energy-inc-solar-panels/ase36m175](http://EnergyPal.com/alfa-solar-energy-inc-solar-panels/ase36m175)



FRAME CAN BE MANUFACTURED WITH TWO DIFFERENT MEASUREMENT OPTIONS.



### Electrical Data

MODEL	ASE 36M 175	ASE 36M 180	ASE 36M 185
<b>P<sub>max</sub></b>	175	180	185
<b>%</b>	17,25	17,74	18,24
<b>I<sub>mp</sub> (A)</b>	9,19	9,24	9,30
<b>I<sub>sc</sub> (A)</b>	9,78	9,81	9,85
<b>V<sub>mp</sub> (V)</b>	19,34	19,62	19,91
<b>V<sub>oc</sub> (V)</b>	22,94	23,40	23,72

### Technical Specifications

### Mekanik Verileri

Subject	Specification
Dimensions	1494 ± 2 mm (L) x 679 ± 2 mm (W) x 42-35 0,5 mm (D)
Weight	12 Kg
Solar Cell	36 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

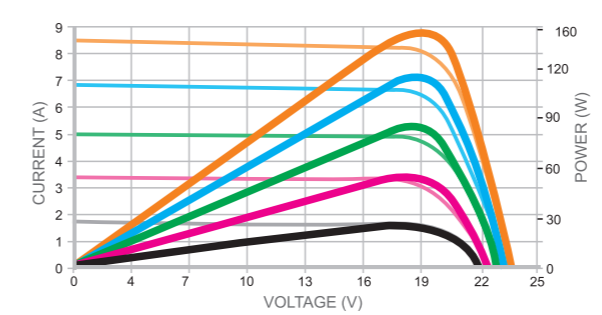
Subject	Specification
Mechanical Strength	5400 Pa (Certified By TUV Rheinland)
Maximum System Voltage	DC 1000 V
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

### Temperature Characteristics

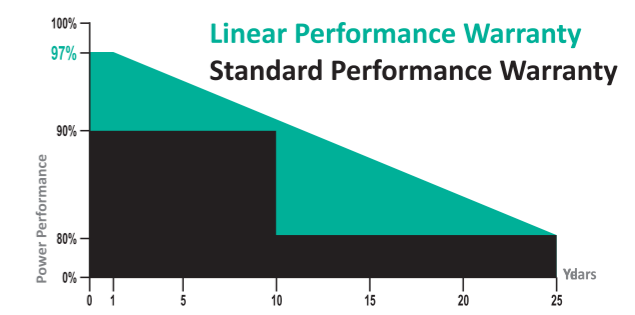
Subject	Specification
Nominal Operating Cell Temperature	44 °C ± 2 °C
Temperature Coefficient of I <sub>sc</sub> (%/°C)	-0,04 % / °C
Temperature Coefficient of βVoc (%/°C)	-0,31 % / °C
Temperature Coefficient of P <sub>max</sub> γ (%/°C)	-0,42 % / °C
Temperature Coefficient of βV <sub>mpp</sub> (%/°C)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

### Warranty

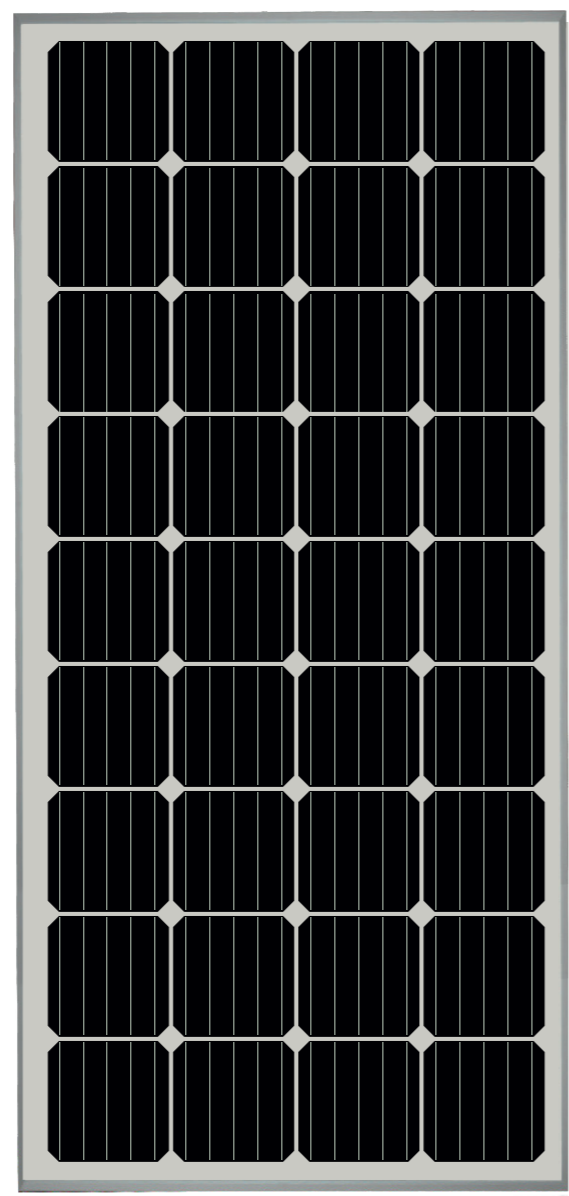
Subject	Specification
Product Warranty	10 Years
Linear Performance Warranty	10 Years, over %90 - 25 Years, over %80
JIT Product	Warranty of selling panels that are produced in last on year.
Power Tolerance	Positive (+) 5 Watt
Online Datasheet on the panel	QR Code System



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.
- 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**

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## J-BOX TEST AND POSITIVE PRODUCTION CLASSIFICATION