

# A9S120M

## 120 Cells Halfcut Panels



**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



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



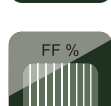
**Wind Load Test:** Under 2400 Pa wind load resistance according to IEC 61215



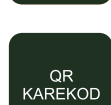
**Thermal Cycles Damp Heat Test:** 1000 hours damp heat and 200 thermal cycles according to IEC 61215



**High Performance in Low Radiation :** On cloudy days, morning and evening over %3 performance (200 w/m2)



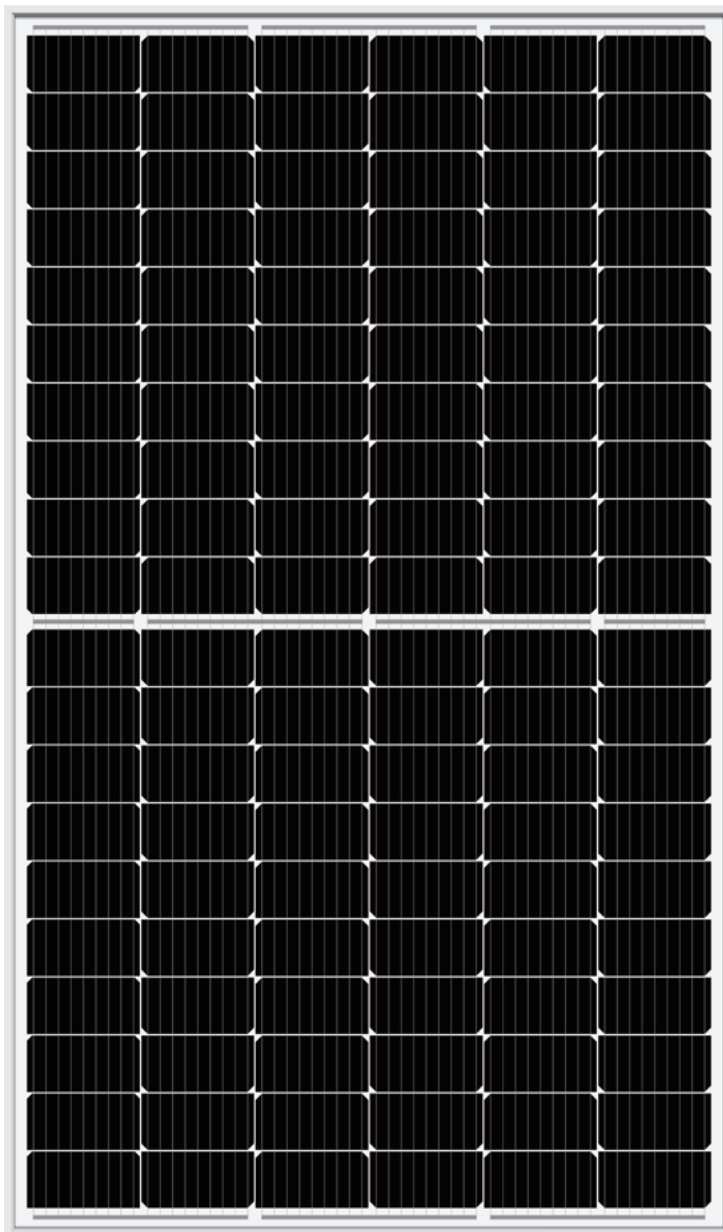
**Fill Factor:** High Fill Factor value, increased power.  
**Cell Power:** Nine bus bar, with high power.



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



**Just in Time Production:** Production date is in panels glass, unchangeable and warranty of selling production in that are



ISO 9001

ISO 14001

ISO 45001

IEC 61215-1

IEC 61215-1-1

IEC 61215-2

IEC 61730-1

IEC 61730-2

IEC 61701

IEC 62804

IEC 62716

OHSAS 45001

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

**Turkey**  
Discover the potential

TUV AAA+ SIMULATOR WITH QR KOD ONLINE DATASHEET

### Electrical Data

		A9S120M 365	A9S120M 370	A9S120M 375	A9S120M 380	A9S120 385
<b>P<sub>max</sub></b>	Maximum Power	365	370	375	380	385
<b>%</b>	Module Efficiency	19,61	19,88	20,15	20,42	20,69
<b>I<sub>mp</sub> (A)</b>	Maximum Power Current	10,48	10,51	10,53	10,65	10,75
<b>I<sub>sc</sub> (A)</b>	Short Circuit Current	11,19	11,21	11,23	11,25	11,28
<b>V<sub>mp</sub> (V)</b>	Maximum Power Voltage	34,86	35,22	35,62	35,79	35,86
<b>V<sub>oc</sub> (V)</b>	Open Circuit Voltage	41,11	41,20	41,30	41,43	41,50

### Mechanical Data

Subject	Specification
Dimensions	1769 ± 2 mm (L) x 1052 ± 2 mm (W) x 35 ± 0,5 mm (D)
Weight	20 Kg
Solar Cell	120 Monocrystalline Perc Type 6" Silicon Cells ( 166 mm x 83 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsuland	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color White
Junction Box	Renhe / Ekinler Certificate
Frame	Aluminium Frame (Eloxal Coating)

### Operating Conditions

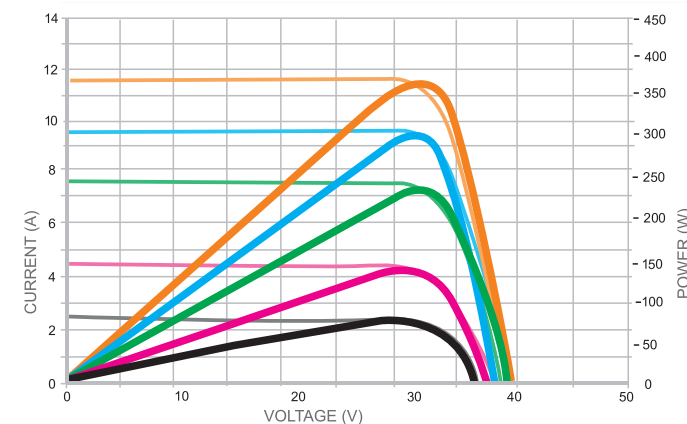
Subject	Specification
Mechanical Strenght	5400 Pa (Certified By KIWA MEYER)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

### Temperature Characteristics

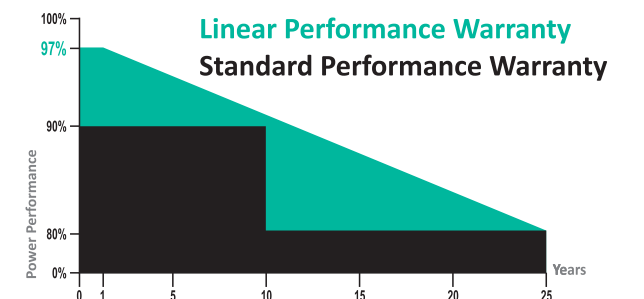
Subject	Specification
Nominal Operating Cell Temperature	41,2 °C ± 2 °C
Temperature Coefficient of P <sub>mp</sub>	-0,311% / °C
Temperature Coefficient of I <sub>sc</sub>	-0,040% / °C
Temperature Coefficient of V <sub>oc</sub>	-0,237% / °C

### Warranty

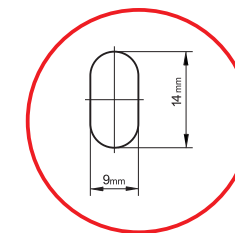
Subject	Specification
Product Warranty	10 Years
Linear Performance Warranty	10 Years, over %90 - 25 Years, over %80
JIT Product	Warranty of selling panels that are produced in last on year.
Power Tolerance	+5W
Online Datasheet on the panel	QR Code System



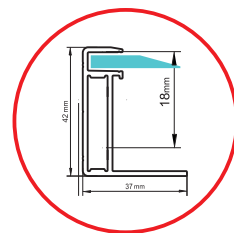
The typical relative change in module efficiency at irradiance of 200 W/m<sup>2</sup> in relation to 1000 W/m<sup>2</sup> (both at 25 °C and AM 1.5 spectrum) is less than 3 %.



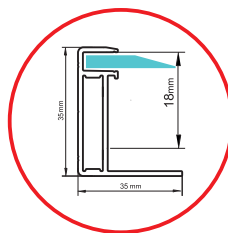
Mounting Slot



Frame



Frame



FRAME CAN BE MANUFACTURED WITH TWO DIFFERENT MEASUREMENT OPTIONS.

