

ENERGY leader on the road to the Moon..!



**PHOTOVOLTAIC
MODULES**
Product Catalog

We Produce High Quality Efficiency Solar Panels...

As Alfa Solar Energy Inc., we opened the doors of our solar panel production facility in 2011 with the aim of leaving a more sustainable world for future generations and providing reliable and efficient solutions to meet our country's growing energy needs.

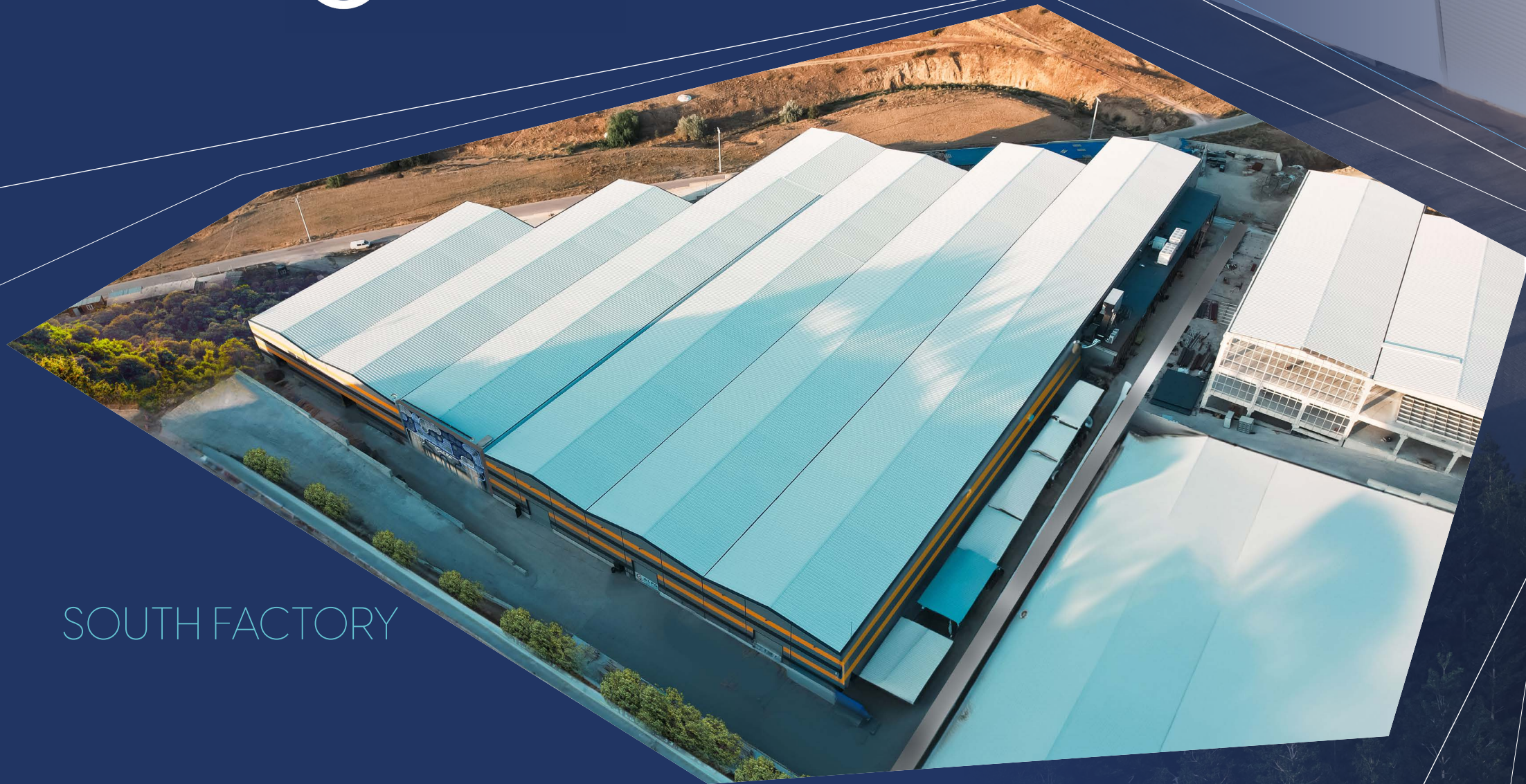
Using over 40 years of production experience from our affiliated group companies, we established a state-of-the-art robotic production facility located in the Kırıkkale Organized Industrial Zone.

Today, in our 40,000 square meters of indoor space production facility, we manufacture 1.3 GW of photovoltaic panels annually.

By bringing the high quality and efficient solar panels we produce together with the leading solar energy producers of our country, we add strength to their production power.



NORTH FACTORY



SOUTH FACTORY



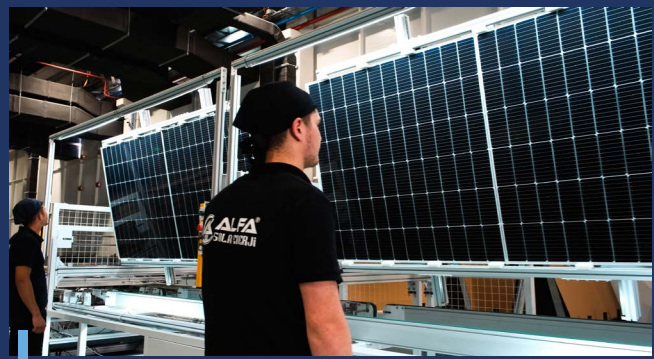
The latest technology allows for cell soldering with machines.



Automatic string soldering machine.



Electroluminescence control in three points.



Visual inspection station.



Automatic JBOX soldering machine.



Automatic JBOX silicone machine.



Our goal is to support the national economy and meet our energy needs with domestic products, while achieving maximum efficiency.



Flawless string production and high-efficiency solar panels achieved through state-of-the-art machinery and artificial intelligence image processing technology.



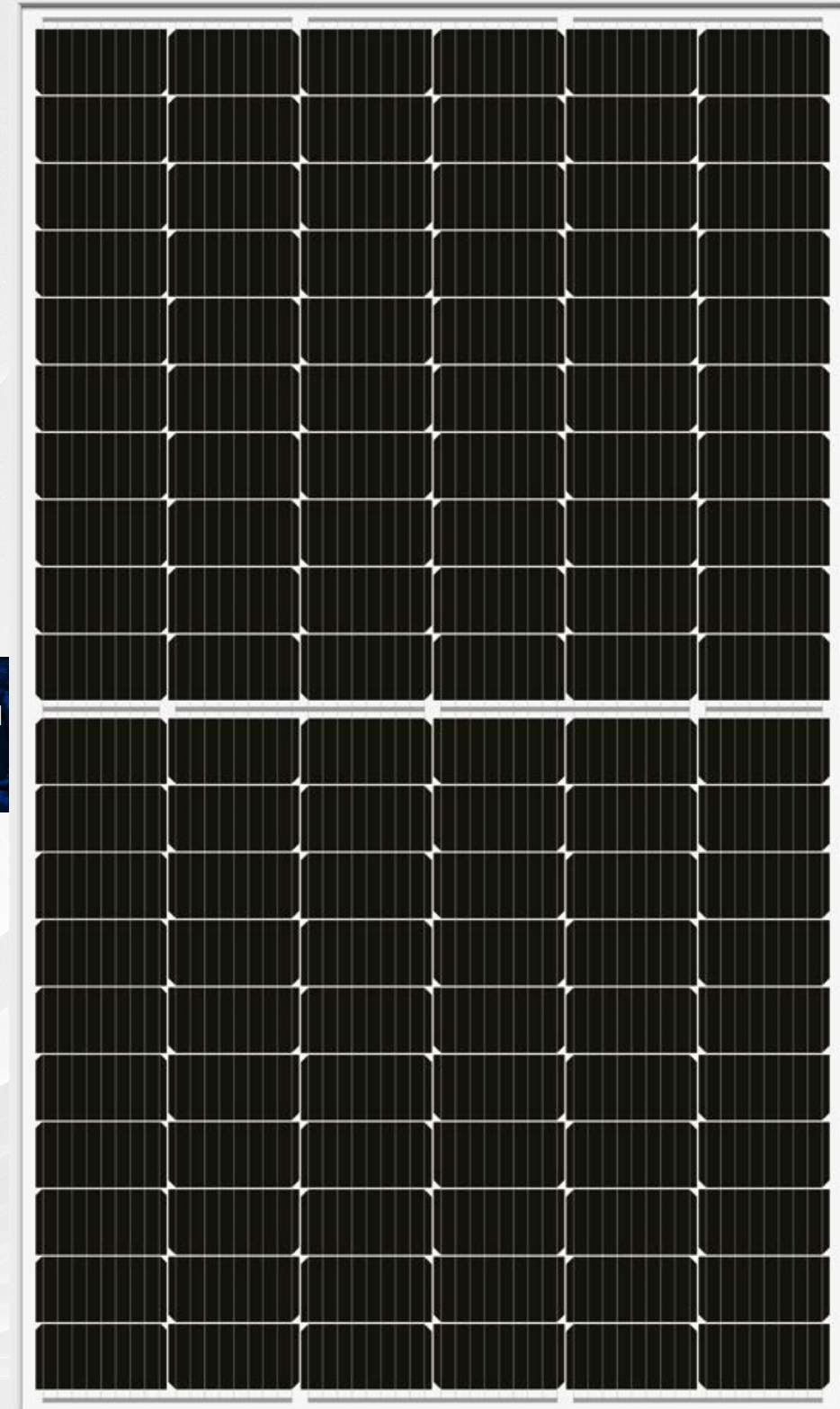
120
CELL

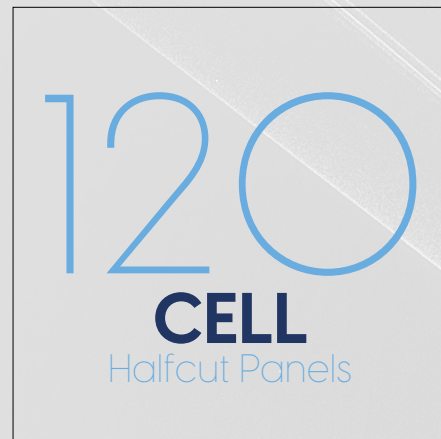
Halfcut Panels



TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A9S120M





Technical Specifications

Turkey
Discover the potential

“LOCAL ITEM” MENTIONED IN NUMBER 5346 YEK LAW

- ISO 9001
- IEC 61215-1
- IEC 61730-1
- IEC 62804
- ISO 14001
- IEC 61215-1-1
- IEC 61730-2
- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001

Electrical Data

Model	A9S120M 365	A9S120M 370	A9S120M 375	A9S120M 380	A9S120M 385	
P_{max}	Maximum Power	365	370	375	380	385
%	Module Efficiency	19,61	19,88	20,15	20,42	20,69
I_{mp} (A)	Maximum Power Current	10,48	10,51	10,53	10,65	10,75
I_{sc} (A)	Short Circuit Current	11,19	11,21	11,23	11,25	11,28
V_{mp} (V)	Maximum Power Voltage	34,86	35,22	35,62	35,79	35,86
V_{oc} (V)	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) 35 ± 0,5 mm (D)
Weight	20 Kg
Solar Cell	120 Monocrystalline PERC 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 Strenth	5400 Pa Snow and 2400 Pa Wind Test Load (Safety F. 1.5 Certified TSE)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

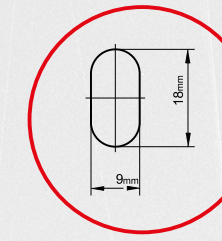
Temperature Characteristics

Subject	Specification
Nominal Operating Cell Temperature	41,2 °C ± 2 °C
Temperature Coefficient of P _{mp}	-0,311 % / °C
Temperature Coefficient of I _{sc}	+0,040 % / °C
Temperature Coefficient of V _{oc}	-0,237 % / °C

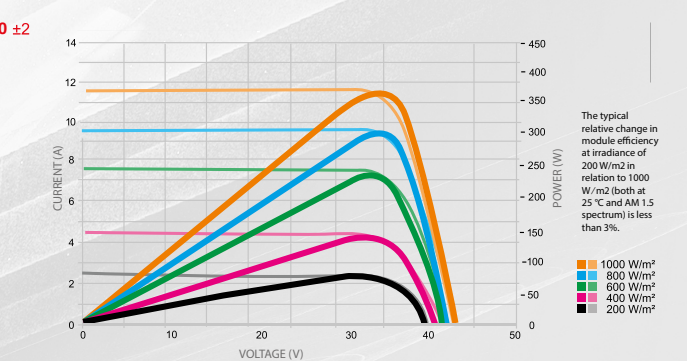
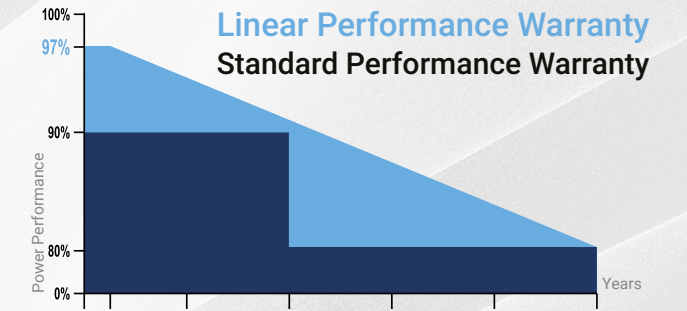
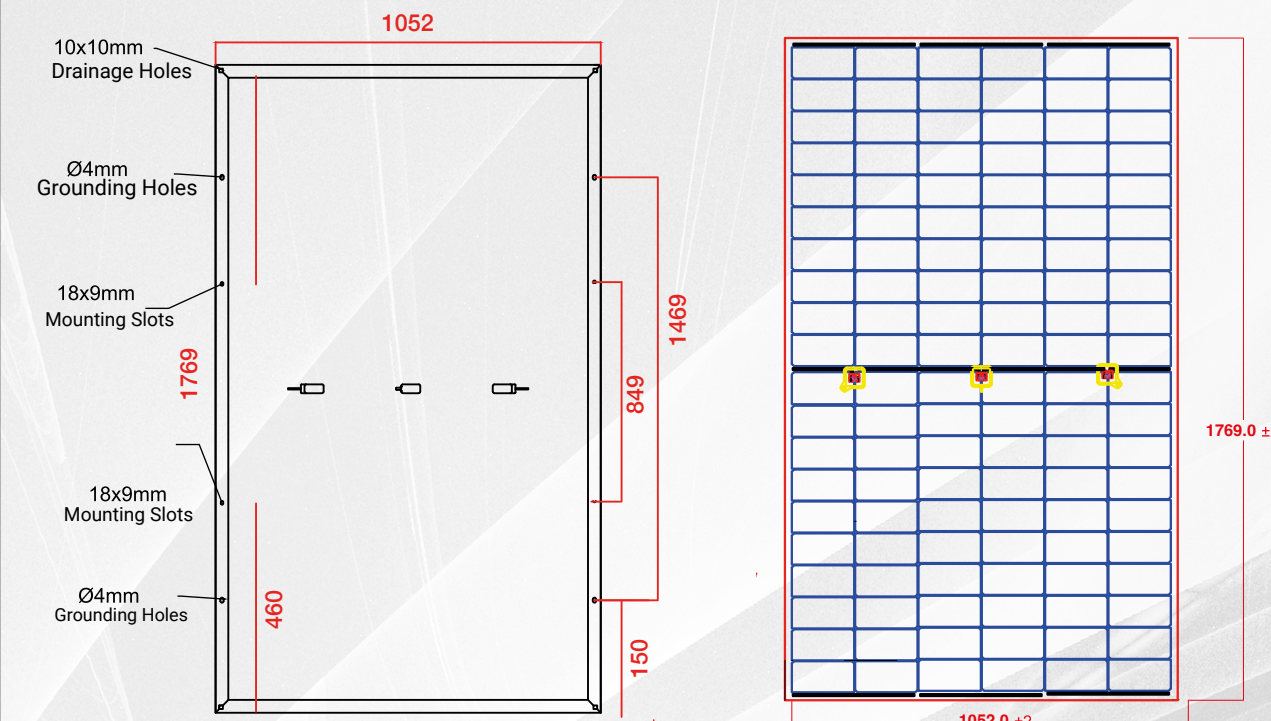
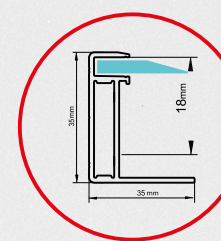
Warranty

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

Mounting Slot



Frame



- Electroluminescence:** Quality control for small microcracks with infrared radiation.
- Sun Simulator:** 1000W/m² 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.
- 2400Pa 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.
- 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.

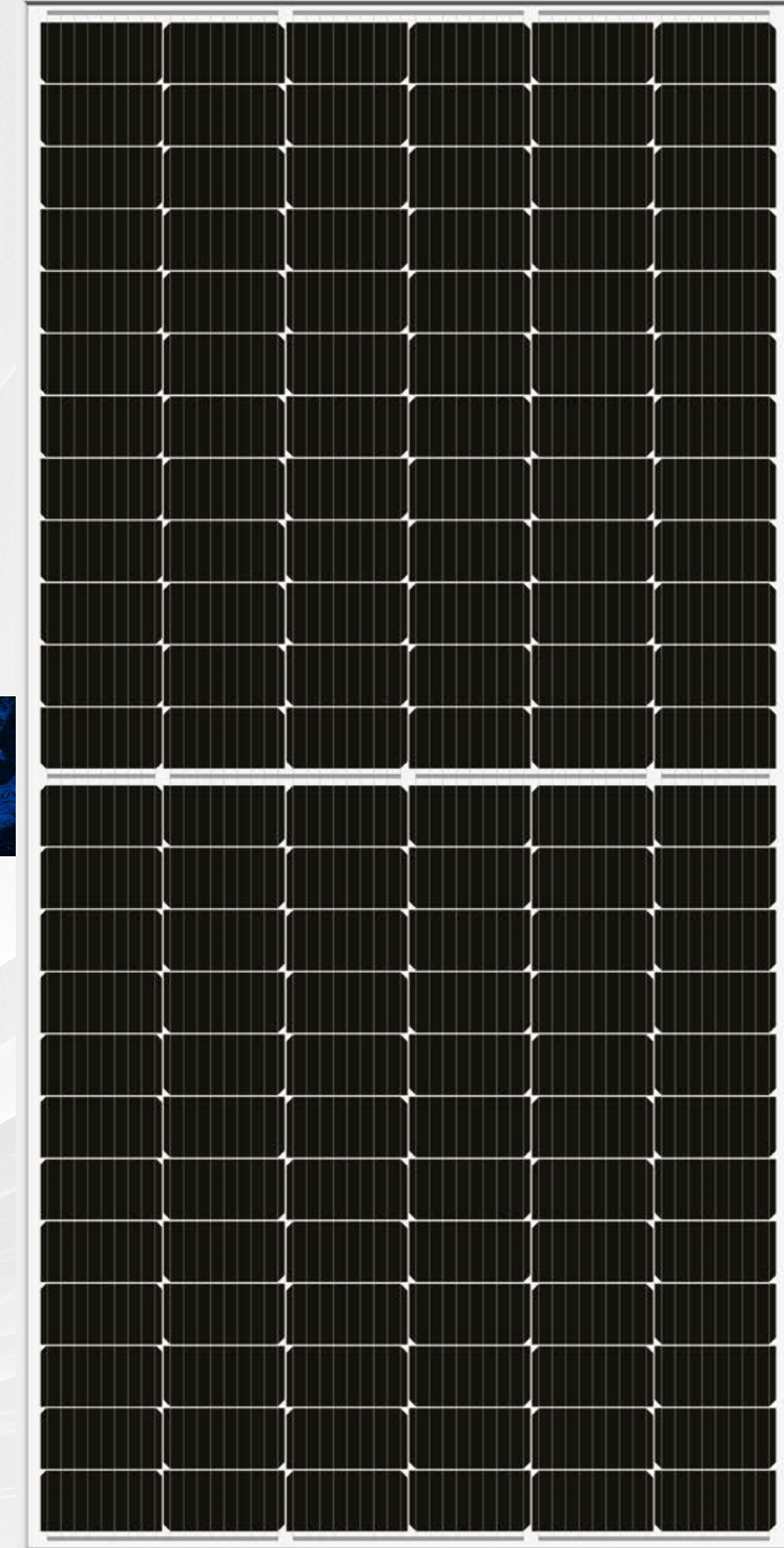
144
CELL

Halfcut Panels



TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A9S144M



144
CELL
Halfcut Panels

Technical Specifications

Electrical Data

Model	A9S144M 455	A9S144M 460
P_{max} Maximum Power	455	460
% Module Efficiency	20,51	20,73
I_{mp} (A) Maximum Power Current	10,66	10,76
I_{sc} (A) Short Circuit Current	11,25	11,26
V_{mp} (V) Maximum Power Voltage	42,79	42,82
V_{oc} (V) Open Circuit Voltage	49,72	49,80

Mechanical Data

Subject	Specification
Dimensions	2109 ± 2 mm (L) x 1052 ± 2 mm (W) 42 ± 0,5 mm (D)
Weight	25 Kg
Solar Cell	144 Monocrystalline PERC 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 Strenth	5400 Pa Snow and 2400 Pa Wind Test Load (Safety F. 1.5 Certified TSE)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

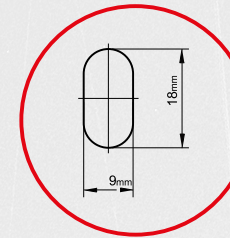
Temperature Characteristics

Subject	Specification
Nominal Operating Cell Temperature	41.2 °C ± 2 °C
Temperature Coefficient of P _{mp}	-0,311 % / °C
Temperature Coefficient of I _{sc}	+0,040 % / °C
Temperature Coefficient of V _{oc}	-0,237 % / °C

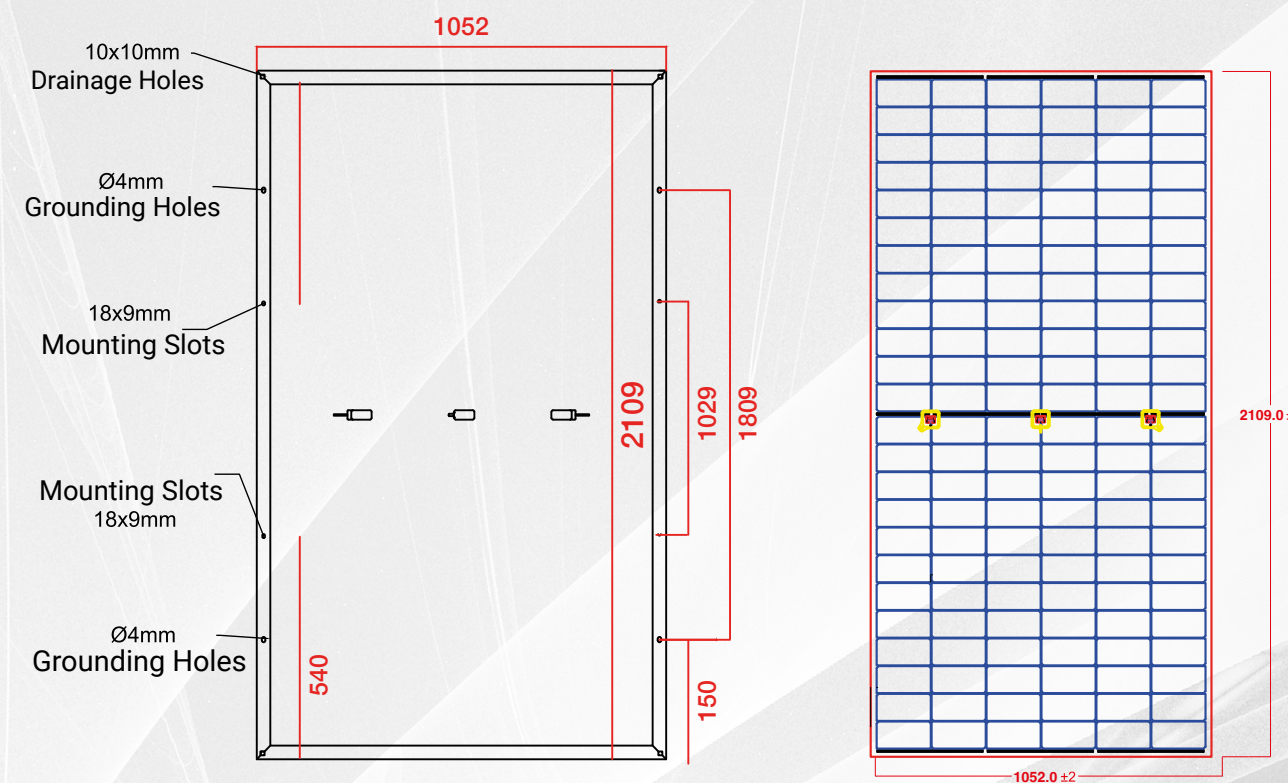
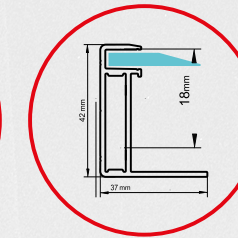
Warranty

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 Darasheet on the panel	QR Code System

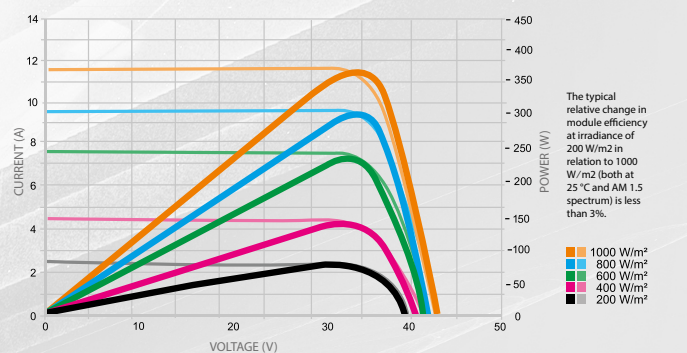
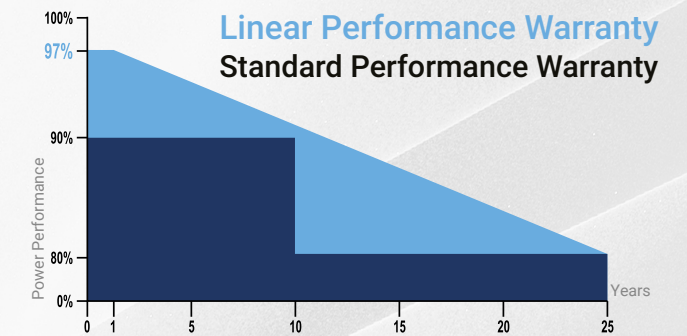
Mounting Slot



Frame



Linear Performance Warranty Standard Performance Warranty



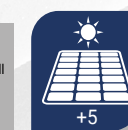
Discover
the potential

“LOCAL ITEM” MENTIONED
IN NUMBER 5346 YEK LAW

- ISO 9001
- IEC 61215-1
- IEC 61730-1
- IEC 62804
- ISO 14001
- IEC 61215-1-1
- IEC 61730-2
- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001



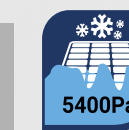
Electroluminescence: Quality control for small microcracks with infrared radiation.



Sun Simulator: 1000W/m² 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.



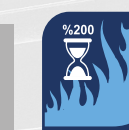
Ammonia Corrosion Test : Corrosion resistance according to IEC 62716



PID Potential Induced Degradation: PID Resistance according to IEC 62804



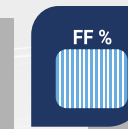
2400Pa Wind Load Test : Under 2400 Pa wind load resistance according to IEC 61215



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.



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.

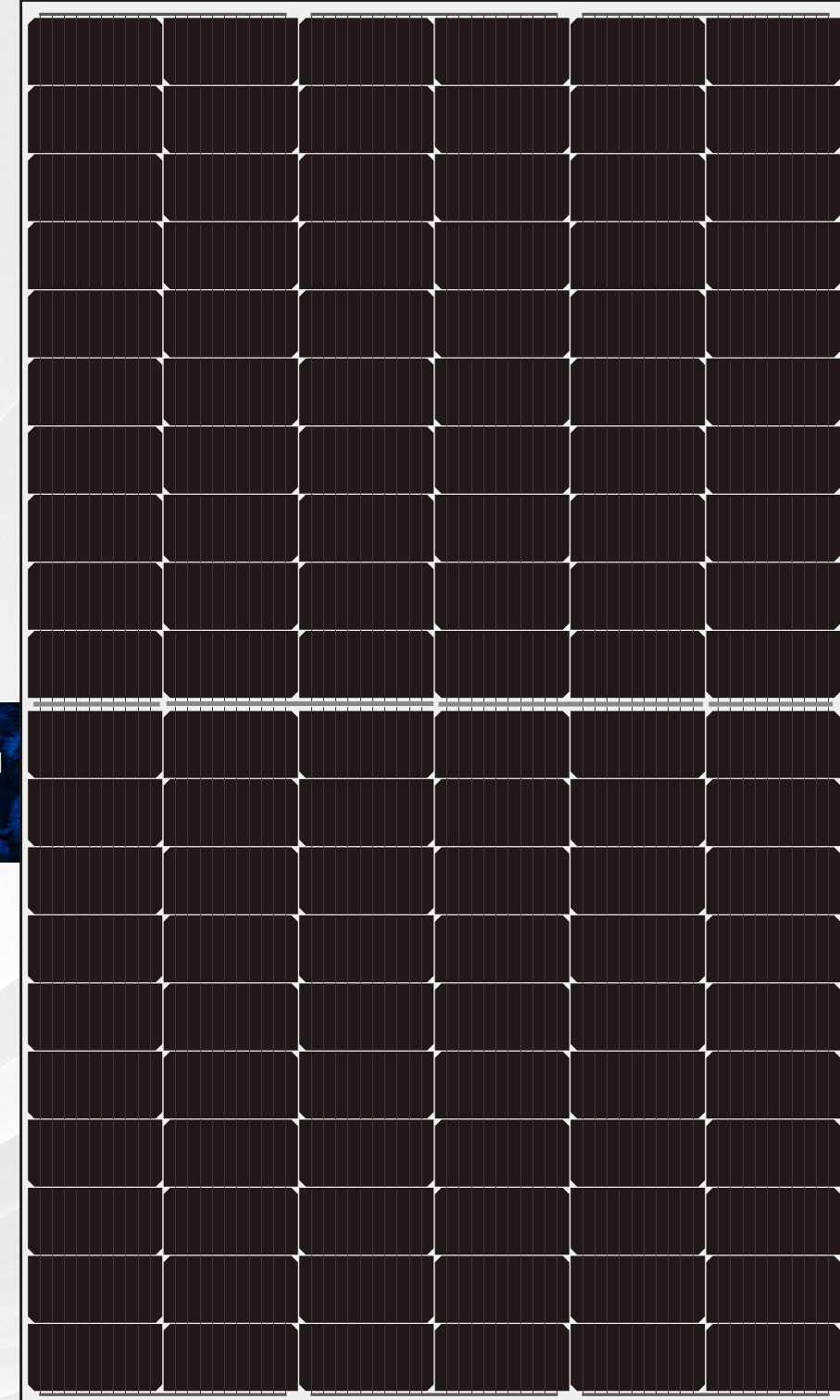
120
CELL

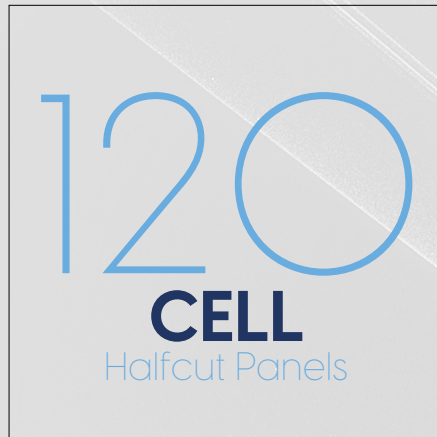
Halfcut Panels



TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A10S120M





Technical Specifications

Turkey
Discover the potential

“LOCAL ITEM” MENTIONED IN NUMBER 5346 YEK LAW

- ISO 9001
- IEC 61215-1
- IEC 61730-1
- IEC 62804
- ISO 14001
- IEC 61215-1-1
- IEC 61730-2
- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001

Electrical Data

Model	A10S120M 445	A10S120M 450	A10S120M 455	A10S120M 460
P_{max} Maximum Power	445	450	455	460
% Module Efficiency	20,44	20,67	20,90	21,13
I_{mp} (A) Maximum Power Current	12,76	12,85	12,97	13,00
I_{sc} (A) Short Circuit Current	13,55	13,57	13,59	13,60
V_{mp} (V) Maximum Power Voltage	35,10	35,28	35,46	35,52
V_{oc} (V) Open Circuit Voltage	41,16	41,34	41,52	41,58

Mechanical Data

Subject	Specification
Dimensions	1923 ± 2 mm (L) x 1132 ± 2 mm (W) 42 ± 0,5 mm (D)
Weight	25 Kg
Solar Cell	144 Monocrystalline PERC Silicon Cells (182 mm x 91 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsuland	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color White
Junction Box	Renhe / Ekinler Certificate
Cable Length	1.3 Mt
Frame	Aluminium Frame (Eloxal Coating)

Operating Conditions

Subject	Specification
Mechanical Strenght	5400 Pa Snow and 2400 Pa Wind Test Load (Safety F. 1.5 Certified TSE)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

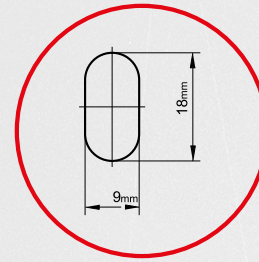
Temperature Characteristics

Subject	Specification
Nominal Operating Cell Temperature	41.2 °C ± 2 °C
Temperature Coefficient of P _{mp}	-0,311 % / °C
Temperature Coefficient of I _{sc}	+0,040 % / °C
Temperature Coefficient of V _{oc}	-0,237 % / °C

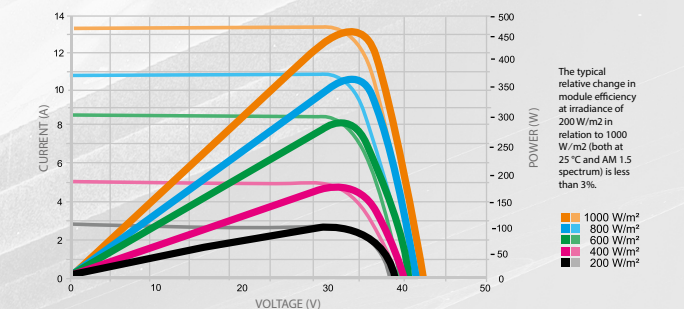
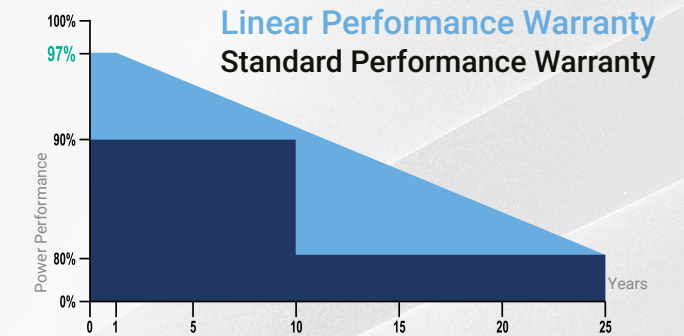
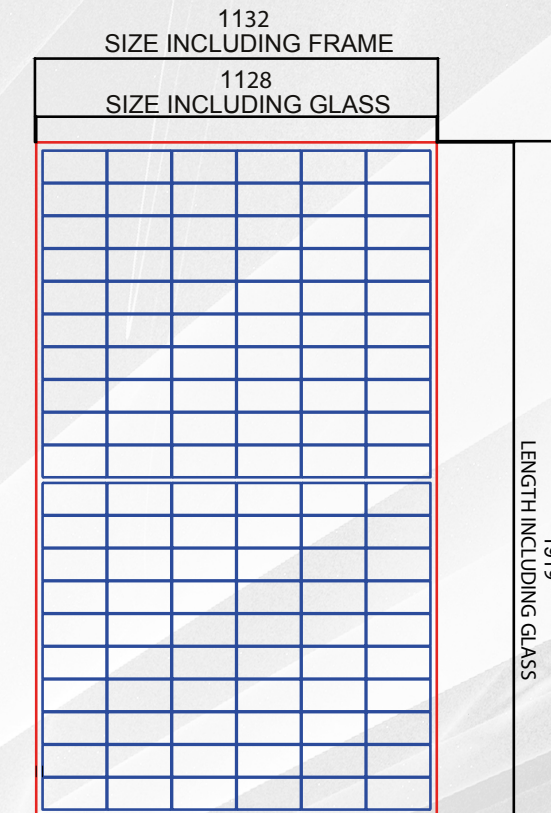
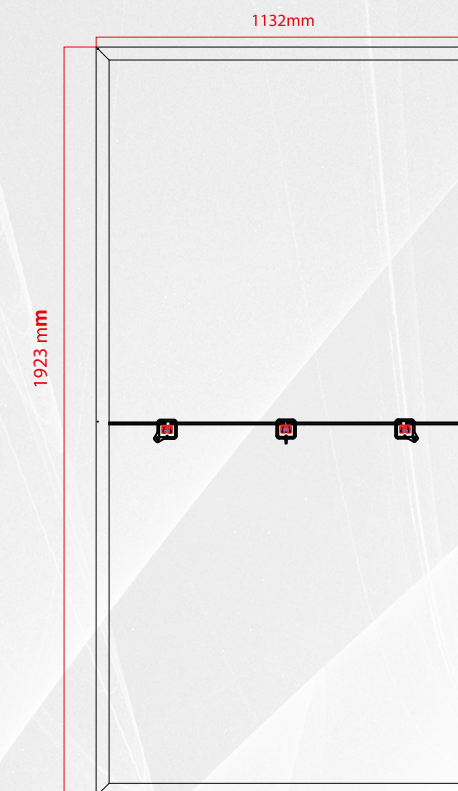
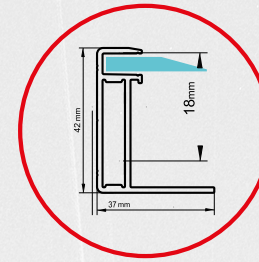
Warranty

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 Darasheet on the panel	QR Code System

Mounting Slot



Frame



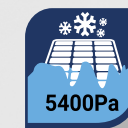
Electroluminescence: Quality control for small microcracks with infrared radiation.



Sun Simulator: 1000W/m² 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



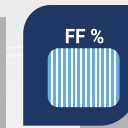
Wind Load Test : Under 2400 Pa wind load resistance according to IEC 61215



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: Ten bus bar, with high power.



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.

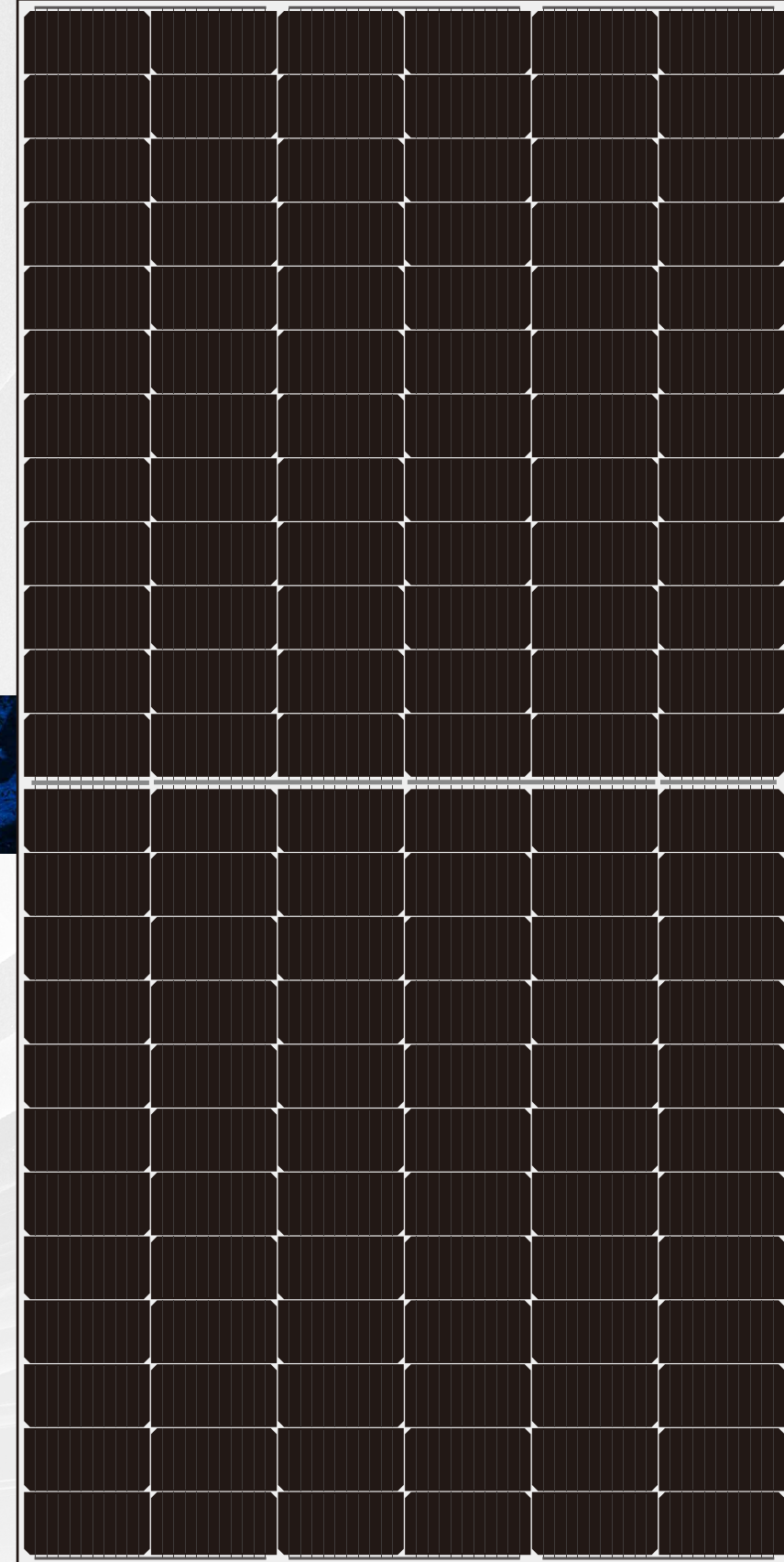
144
CELL

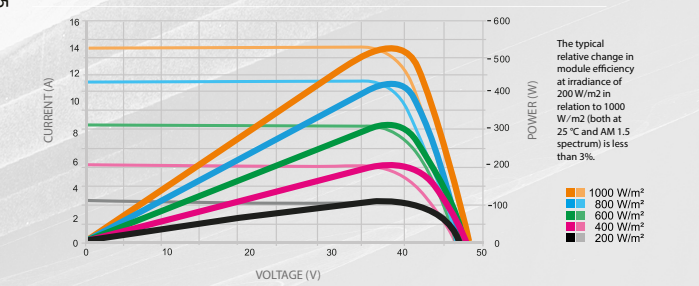
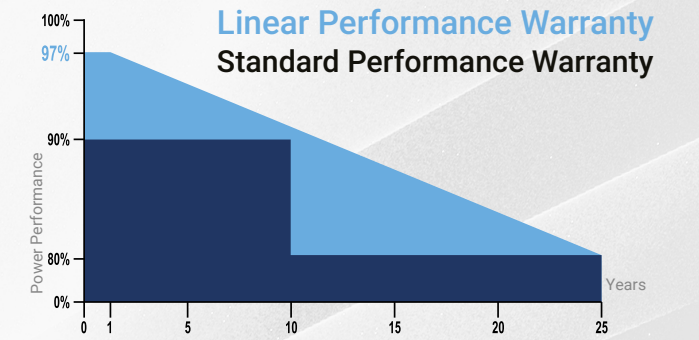
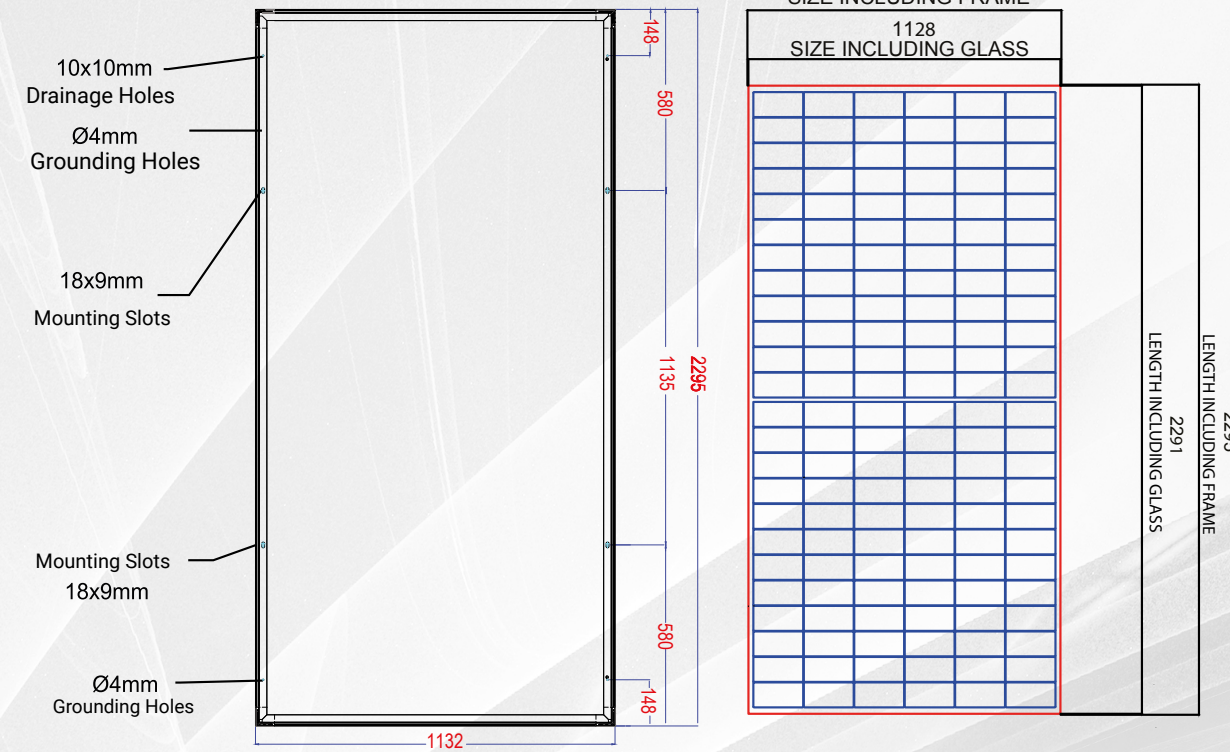
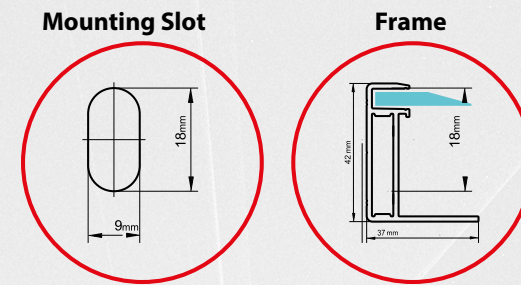
Halfcut Panels



TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A10S144M





Electrical Data

Model	A10S144M 535	A10S144M 540	A10S144M 545	A10S144M 550
P_{max} Maximum Power	535	540	545	550
% Module Efficiency	20,59	20,79	20,98	21,17
I_{mp} (A) Maximum Power Current	12,76	12,82	12,89	13,00
I_{sc} (A) Short Circuit Current	13,55	13,56	13,58	13,60
V_{mp} (V) Maximum Power Voltage	42,12	42,26	42,41	42,62
V_{oc} (V) Open Circuit Voltage	49,39	49,54	49,68	49,90

Mechanical Data

Subject	Specification
Dimensions	2295 ± 2 mm (L) x 1132 ± 2 mm (W) 42 ± 0,5 mm (D)
Weight	29 Kg
Solar Cell	144 Monocrystalline PERC Silicon Cells (182 mm x 91 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsuland	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color White
Junction Box	Renhe / Ekinler Certificate
Cable Length	1.3 Mt
Frame	Aluminium Frame (Eloxal Coating)

Operating Conditions

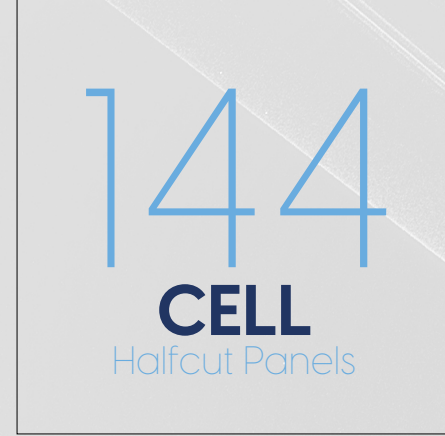
Subject	Specification
Mechanical Strenght	5400 Pa Snow and 2400 PaWind Test Load (Safety F. 1.5 Certified TSE)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

Subject	Specification
Nominal Operating Cell Temperature	41.2 °C ± 2 °C
Temperature Coefficient of P _{mp}	-0,311 % / °C
Temperature Coefficient of I _{sc}	+0,040 % / °C
Temperature Coefficient of V _{oc}	-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 Darasheet on the panel	QR Code System



Technical Specifications

- ISO 9001
- IEC 61215-1
- IEC 61730-1
- IEC 62804
- ISO 14001
- IEC 61215-1-1
- IEC 61730-2
- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001

Turkey
Discover the potential
"LOCAL ITEM" MENTIONED IN NUMBER 5346 YEK LAW

Electroluminescence: Quality control for small microcracks with infrared radiation.

Sun Simulator: 1000W/m² 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

2400Pa 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.
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144
CELL

Halfcut Panels



TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A1OS144MBF



144

CELL
Halfcut Panels

Technical Specifications

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- IEC 61730-2
- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001

Electrical Data

Model	A10S144M 535	A10S144M 540	A10S144M 545	A10S144M 550
P_{max}	535	540	545	550
%	20,59	20,79	20,98	21,17
I_{mp} (A)	12,76	12,82	12,89	13,00
I_{sc} (A)	13,55	13,56	13,58	13,60
V_{mp} (V)	42,12	42,26	42,41	42,62
V_{oc} (V)	49,39	49,54	49,68	49,90

Bifacial Output Power Gain

Bifacial On Rear Side (W/m ²)	P _{max}	Eff	P _{max}	Eff	P _{max}	Eff	P _{max}	Eff
0	535	20,59	540	20,79	545	20,98	550	21,17
100	575	22,14	580	22,33	585	22,52	590	22,71
200	615	23,68	620	23,88	625	24,07	630	24,25
300	655	25,23	660	25,42	665	25,62	670	25,79
400	695	26,78	700	26,97	705	27,16	710	27,33
500	735	28,32	740	28,51	745	28,71	750	28,87

BiFi Factor **0,40**

Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

Operating Conditions

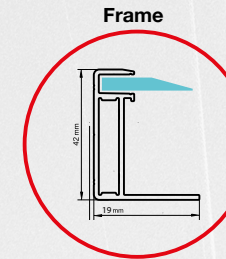
Subject	Specification
Mechanical Strenth	5400 Pa Snow and 2400 Pa Wind Test Load (Safety F. 1.5 Certified TSE)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

Subject	Specification
Nominal Operating Cell Temperature	41.2 °C ± 2 °C
Temperature Coefficient of P _{mp}	-0,311 % / °C
Temperature Coefficient of I _{sc}	+0,040 % / °C
Temperature Coefficient of V _{oc}	-0,237 % / °C

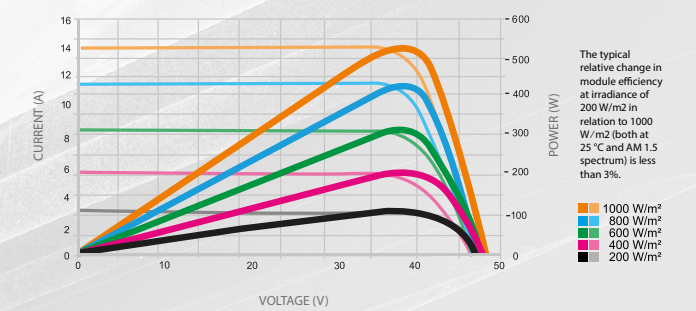
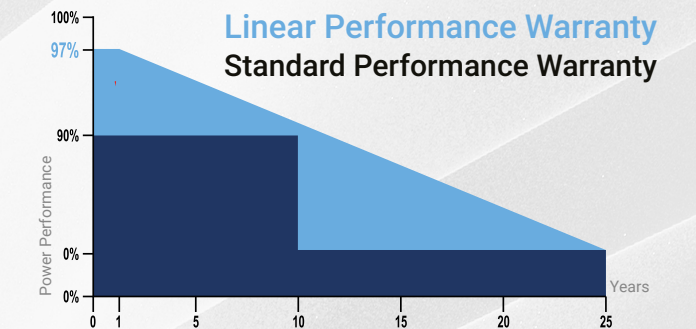
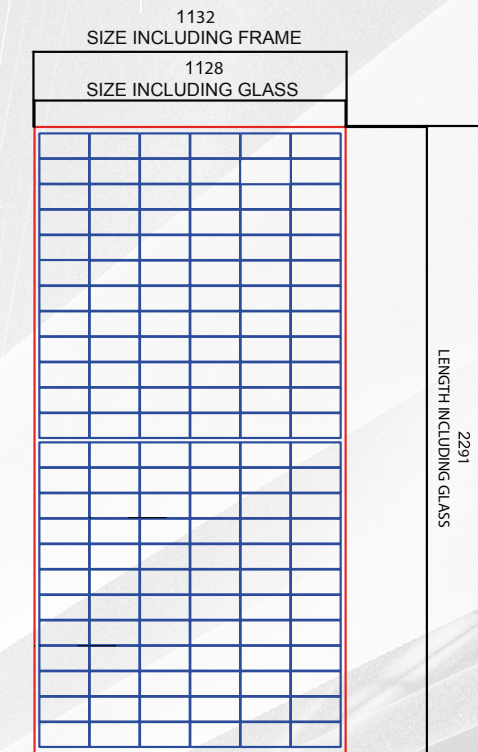
Warranty

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	Positive (+) 5 Watt
Online Darasheet on the panel	QR Code System



Mechanical Data

Subject	Specification
Dimensions	2295 ± 2 mm (L) x 1132 ± 2 mm (W)42 ± 0,5 mm (D)
Weight	29 Kg
Solar Cell	144 Monocrystalline PERC Silicon Cells (182 mm x 91 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsuland	Ethylene Vinyl Acetate (EVA)
Backsheet	Transparent Film
Junction Box	Renhe / Ekinle Certificate
Cable Length	1.3 Mt
Frame	Aluminium Frame (Eloxal Coating)



Electroluminescence: Quality control for small microcracks with infrared radiation.

Sun Simulator: 1000W/m² 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

2400Pa 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: Ten 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 produced in last one year.

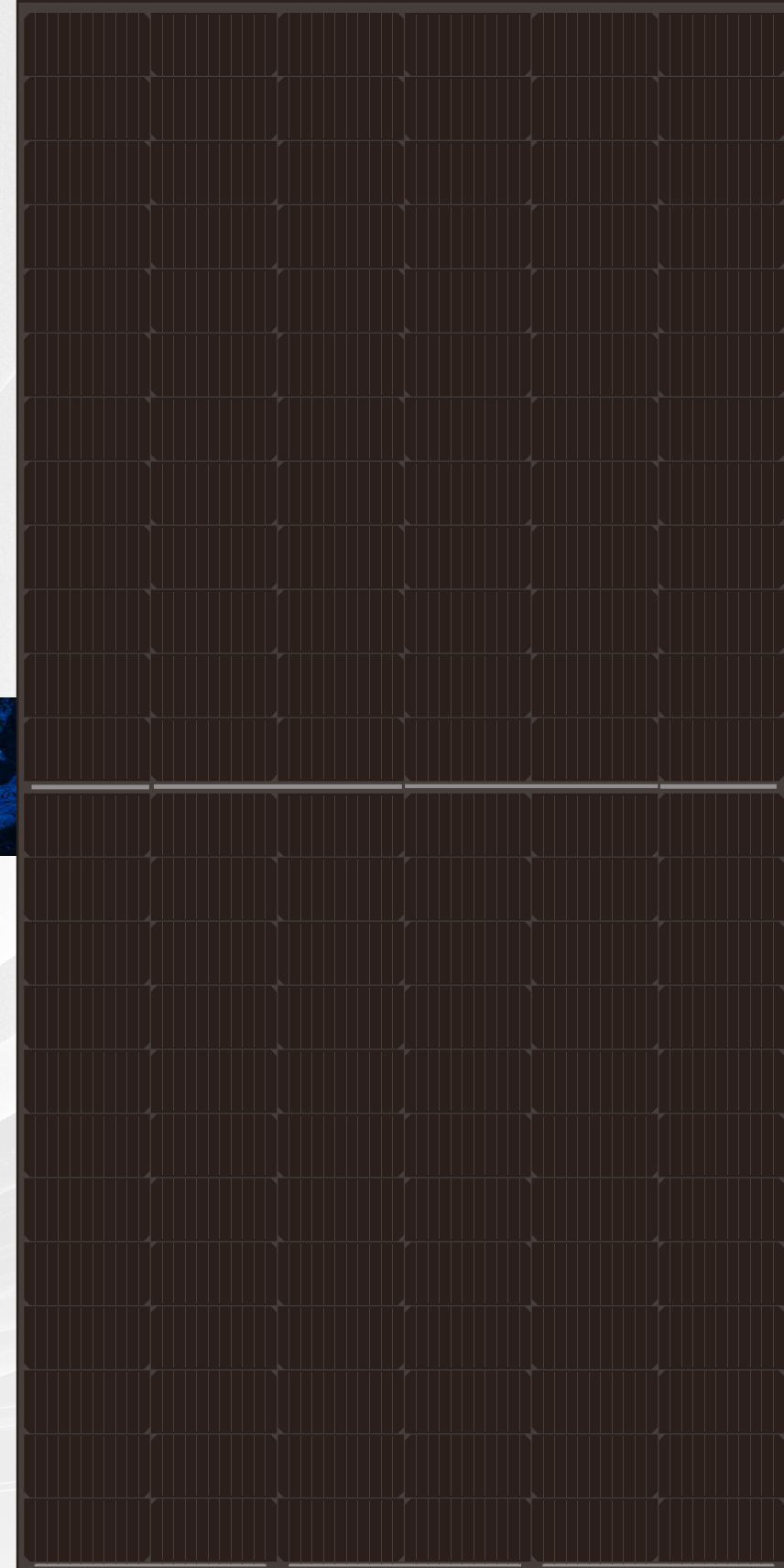
144
CELL

Halfcut Panels

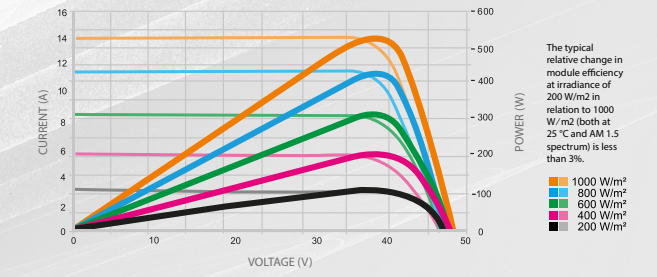
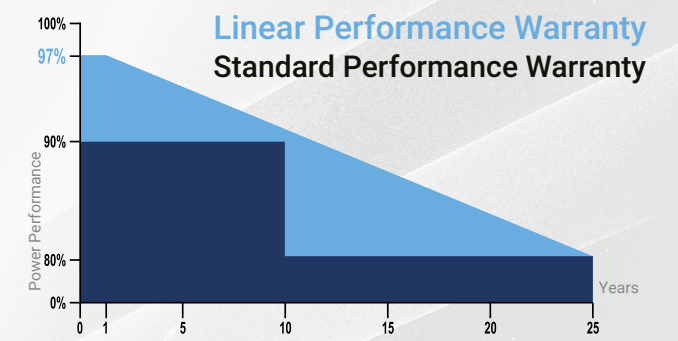
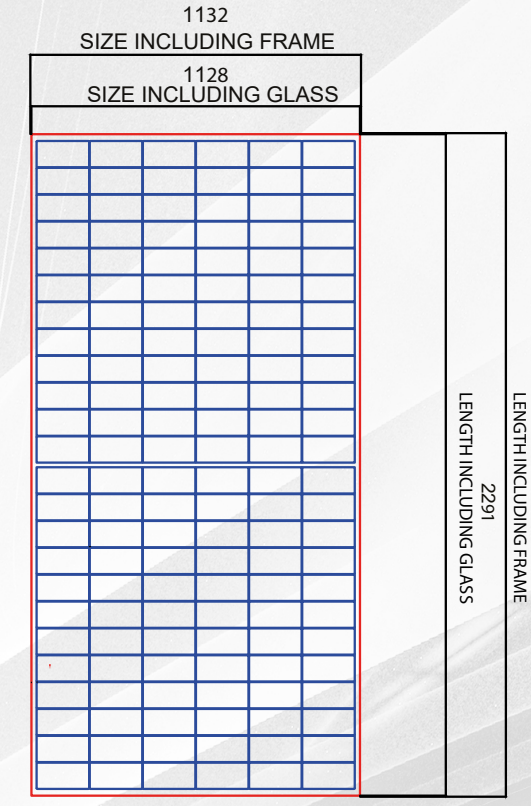
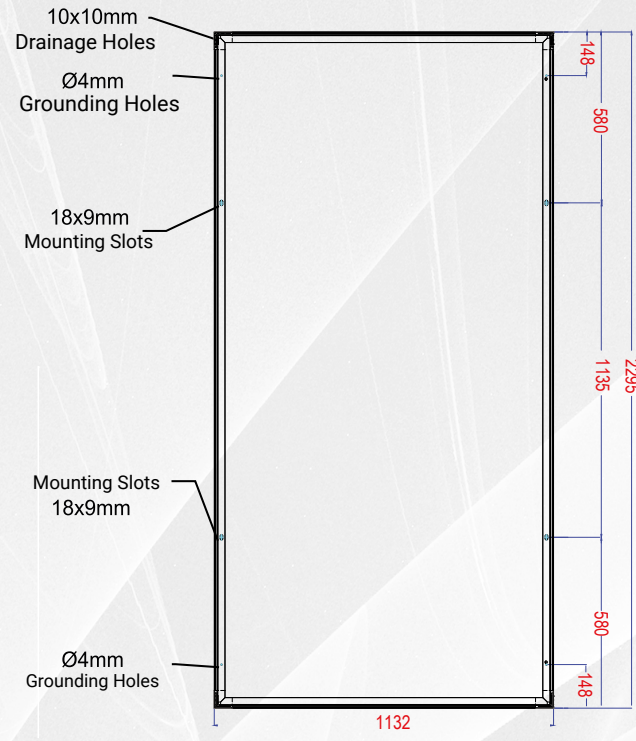
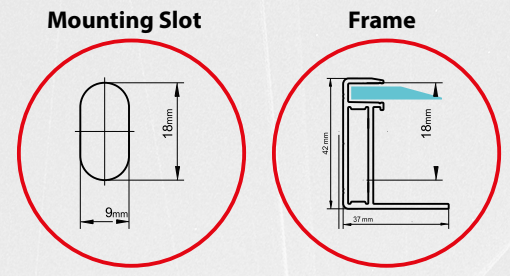


TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A10S144M
BLACK



A10S144M BLACK



Electrical Data

Model	A10S144M 535	A10S144M 540	A10S144M 545	A10S144M 550
P_{max} Maximum Power	535	540	545	550
% Module Efficiency	20,59	20,79	20,98	21,17
I_{mp} (A) Maximum Power Current	12,76	12,82	12,89	13,00
I_{sc} (A) Short Circuit Current	13,55	13,56	13,58	13,60
V_{mp} (V) Maximum Power Voltage	42,12	42,26	42,41	42,62
V_{oc} (V) Open Circuit Voltage	49,39	49,54	49,68	49,90

Mechanical Data

Subject	Specification
Dimensions	2295 ± 2 mm (L) x 1132 ± 2 mm (W) 42 ± 0,5 mm (D)
Weight	29 Kg
Solar Cell	144 Monocrystalline PERC Silicon Cells (182 mm x 91 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsuland	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color Black
Junction Box	Renhe / Ekinler Certificate
Cable Length	1.3 Mt
Frame	Aluminium Frame (Eloxal Coating)

Operating Conditions

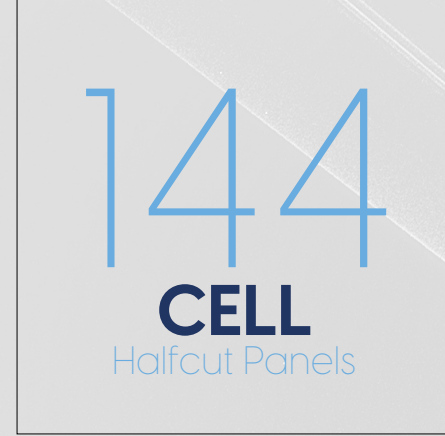
Subject	Specification
Mechanical Strenth	5400 Pa Snow and 2400 Pa Wind Test Load (Safety F. 1.5 Certified TSE)
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Warranty

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 Darasheet on the panel	QR Code System



Technical Specifications

- ISO 9001
- IEC 61215-1
- IEC 61730-1
- IEC 62804
- ISO 14001
- IEC 61215-1-1
- IEC 61730-2
- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001

Turkey
Discover the potential
"LOCAL ITEM" MENTIONED IN NUMBER 5346 YEK LAW

Electroluminescence: Quality control for small microcracks with infrared radiation.

Sun Simulator: 1000W/m² 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

2400Pa 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: Ten bus bar, with high power.

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.

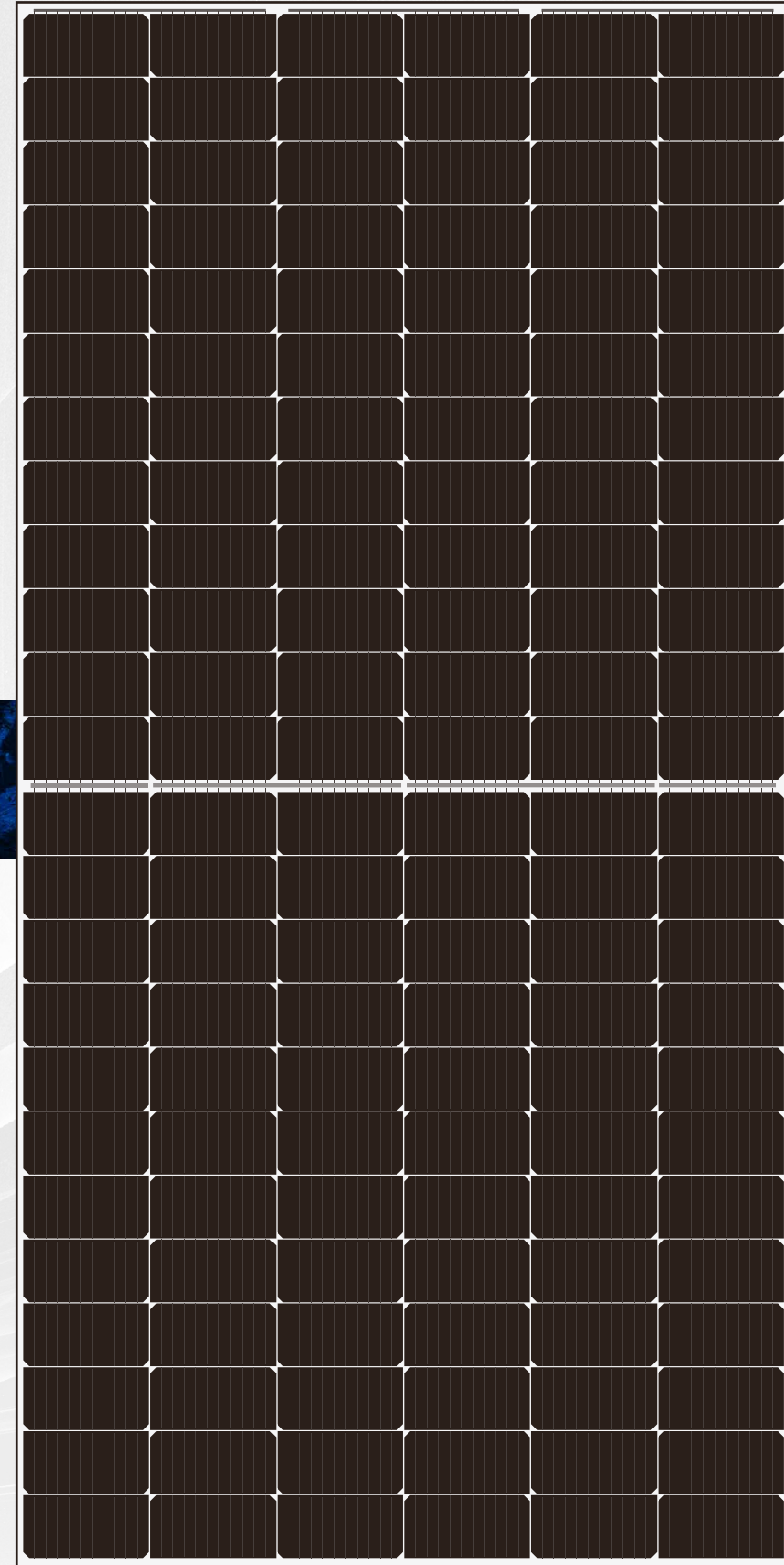
TOPCON 144 CELL

Halfcut Panels



TUV AAA+ SIMULATOR WITH
QR KOD ONLINE DATASHEET

A10S144T



TOPCON

144
CELL
Halfcut Panels

Technical Specifications

- ISO 9001
- IEC 61215-1
- IEC 61730-1
- IEC 62804
- ISO 14001
- IEC 61215-1-1
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- IEC 62716
- ISO 45001
- IEC 61215-2
- IEC 61701
- OHSAS 45001

Turkey

Discover the potential

"LOCAL ITEM" MENTIONED IN NUMBER 5346 YEK LAW

Electrical Data						
Model	A10S144T 565	A10S144T 570	A10S144T 575	A10S144T 580	A10S144T 585	
P_{max}	Maximum Power	565	570	575	580	585
%	Module Efficiency	21,86	22,06	22,22	22,42	22,61
I_{mp} (A)	Maximum Power Current	13,08	13,15	13,23	13,31	13,37
I_{sc} (A)	Short Circuit Current	13,64	13,72	13,79	13,86	13,93
V_{mp} (V)	Maximum Power Voltage	43,43	43,59	43,57	43,78	43,90
V_{oc} (V)	Open Circuit Voltage	50,70	50,86	50,94	51,05	51,17

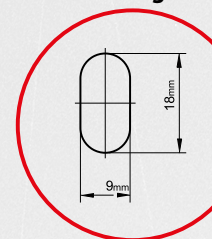
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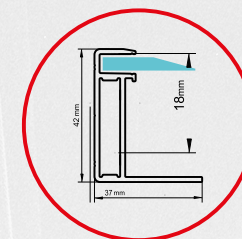
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Linear Performance Warranty	10 Years, over %90 - 25 Years, over %80
JIT Product	Warranty of selling panels that are produced in last on year.
Power Tolerance	Positive (+) 5 Watt
Online Darasheet on the panel	QR Code System

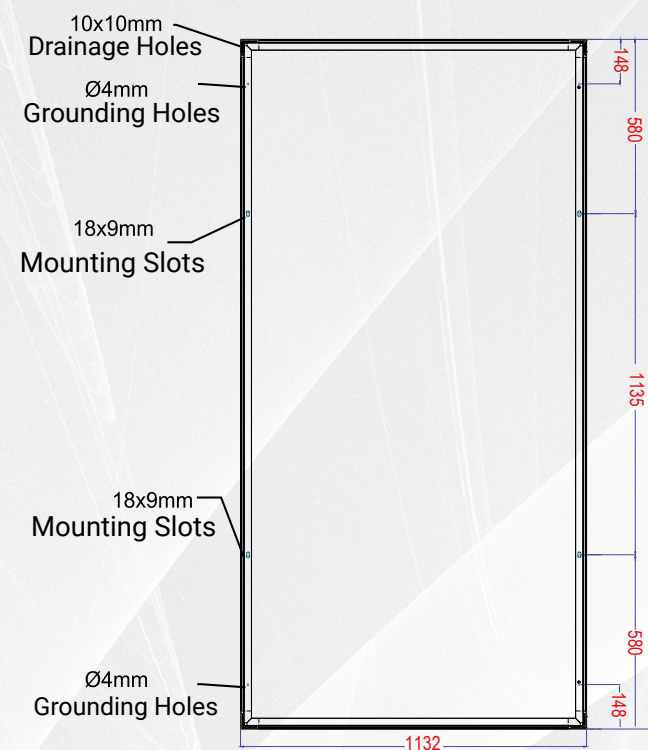
Mounting Slot



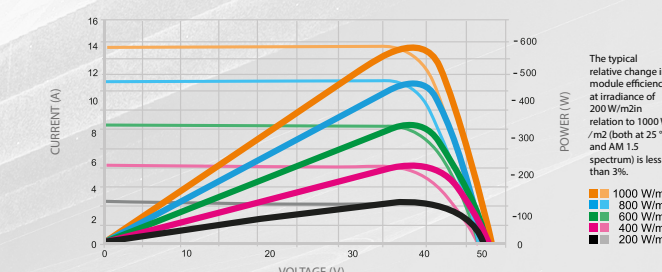
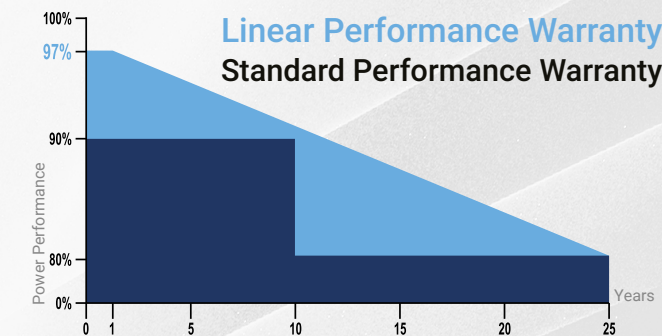
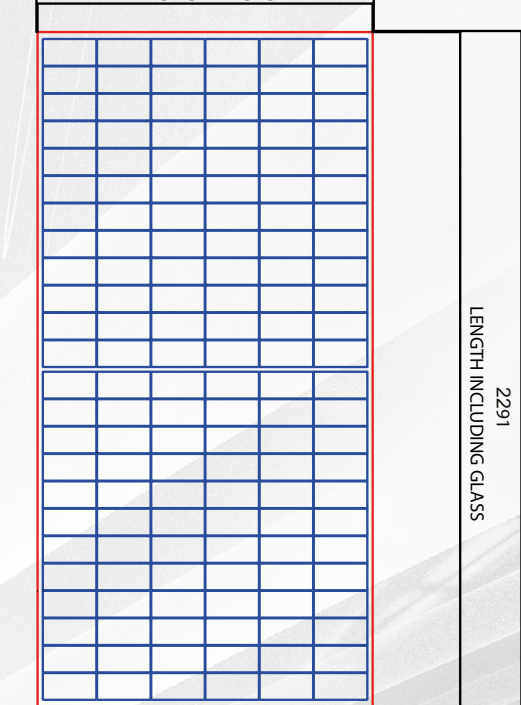
Frame



10BB



1132
SIZE INCLUDING FRAME
1128
SIZE INCLUDING GLASS



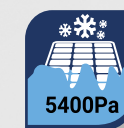
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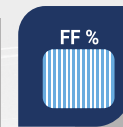
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THE EARTH NEEDS THE SUN!



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TURKEY

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