

A10S144M

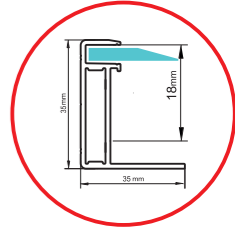
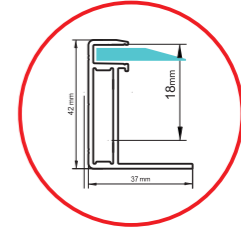
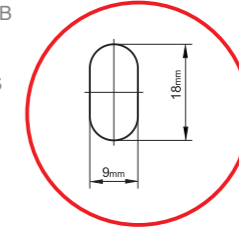
144 Cells Halfcut Panels



Mounting Slot

Frame

Frame



FRAME CAN BE MANUFACTURED WITH TWO DIFFERENT MEASUREMENT OPTIONS.



Electroluminescence: Quality control for small microcracks with infrared radiation.



Sun Simulator: 1000 W/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



Potential Induced Degradation: PID Resistance according to IEC 62804



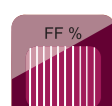
Wind Load Test: Under 2400 Pa wind load resistance according to IEC 61215



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.



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



Electrical Data

MODEL	A10S144M 535	A10S144M 540	A10S144M 545	
P_{max}	Maximum Power	535	540	545
%	Module Efficiency	20,33	20,52	20,71
I_{mp} (A)	Maximum Power Current	12,85	12,92	12,96
I_{sc} (A)	Short Circuit Current	13,56	13,58	13,59
V_{mp} (V)	Maximum Power Voltage	41,91	42,06	42,13
V_{oc} (V)	Open Circuit Voltage	49,11	49,25	49,33

Technical Specifications

Mechanical Data

Subject	Specification
Dimensions	2298 ± 2 mm (L) x 1145 ± 2 mm (W) x 42 ± 0,5 mm (D)
Weight	29 Kg
Solar Cell	144 Monocrystalline Perc Type 6" Silicon Cells (182 mm x 91 mm)
Front Glass	Tempered / Tempered ARC Glass
Encapsulant	Ethylene Vinyl Acetate (EVA)
Backsheet	Composite Film, Color White
Junction Box	Ekinler
Frame	Aluminium Frame (Eloxal Coating)

Operating Conditions

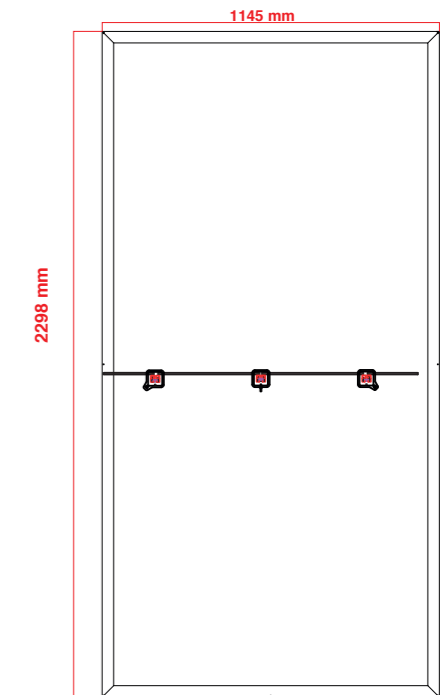
Subject	Specification
Mechanical Strength	5400 Pa (Certified By KIWA MEYER)
Maximum System Voltage	DC 1500 V
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

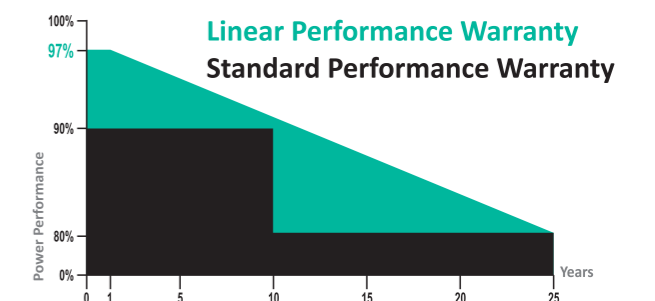
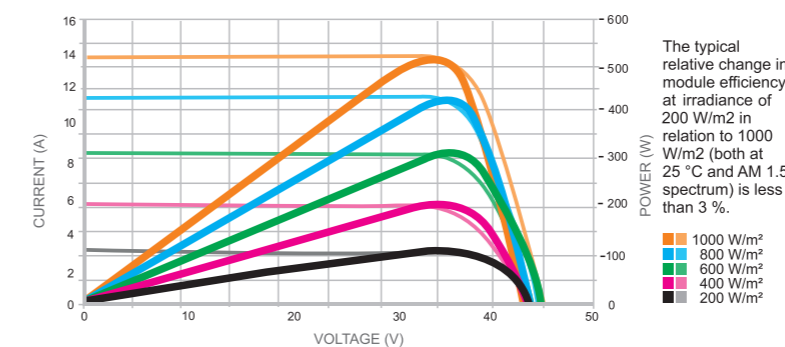
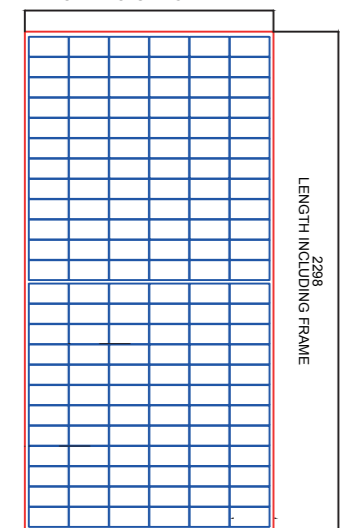
Subject	Specification
Nominal Operating Cell Temperature	44 °C ± 2 °C
Temperature Coefficient of P _{mp}	-0,311 % / °C
Temperature Coefficient of I _{sc}	-0,040 % / °C
Temperature Coefficient of V _{oc}	-0,237 % / °C

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 Datasheet on the panel	QR Code System



1145
SIZE INCLUDING FRAME



- 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
DOMESTIC QR CODE