



A10S-144M

High Efficiency
with Half-cut Technology
535W / 540W / 545W / 550W / 555W

Big Size: Cell 182*91 - Monocrystalline

- Module Efficiency: %21.3
- No.of Cells: 144 (6 x 24)
- Weight: 27.4 kg
- Dimensions: 2278mm × 1134mm × 35mm

12 Ys

Product Warranty

30 Ys

Warranty on power
output

5W

Positive tolerance 0/+5W
guaranteed

PID

PID Resistant



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



10BB The optimized number and width of main gate lines. Maximize the light receiving area of components and reduce component power consumption.



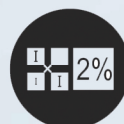
Microcrack resistant high performance transparent backsheet structure enhance reliability, **triple EL tested** of high quality control.



Designed for **high voltage systems** of up to 1500 VDC, increasing the string length of solar systems and saving on BOS costs.



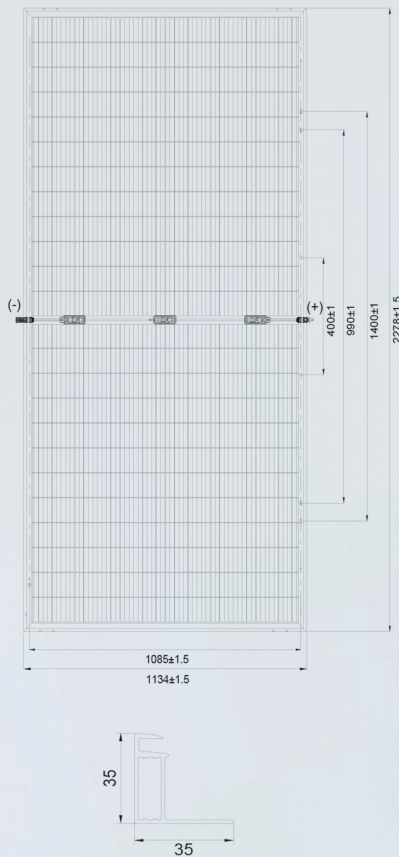
Entire module certified to with stand extreme wind (2400 Pa) and snow loads (5400 Pa).



All the modules are sorted and packaged by amperage, **reducing mismatch losses** and maximizing system output.



Engineering Drawing



Electrical Characteristics

Module	A10S-144M				
Maximum Power at STC(P _{max})	535W	540W	545W	550W	555W
Open-Circuit Voltage(V _{oc})	49.36V	49.52V	49.68V	49.84V	50.03V
Short-Circuit Current(I _{sc})	13.77A	13.84A	13.91A	13.98A	14.04A
Optimum Operating Voltage (V _{mp})	41.51V	41.67V	41.83V	41.99V	42.18V
Optimum Operating Current(I _{mp})	12.89A	12.96A	13.03A	13.10A	13.16A
Module Efficiency	20.7%	20.9%	21.1%	21.2%	21.3%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(UL/IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

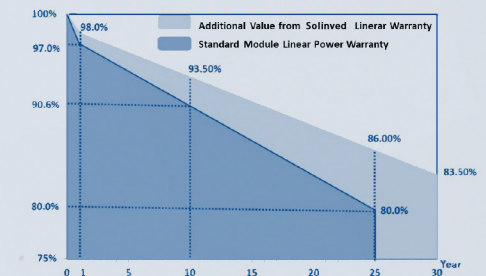
*STC:Irradiance 1000W/m² module temperature 25, AM=1.5

Warranty

12-year product warranty

30-year warranty on power output

Specific information is referred to the product quality guarantee

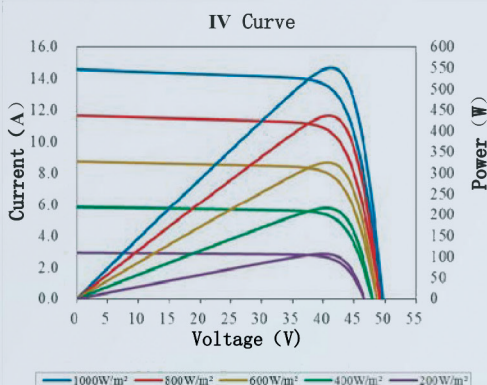


Temperature Characteristics

Temperature Coefficient of P _{max}	γ (P _m)	-0.34%/°C
Temperature Coefficient of V _{oc}	β (V _{oc})	-0.26%/°C
Temperature Coefficient of I _{sc}	α (I _{sc})	0.048%/°C

IV Curves

Current-Voltage & Power-Voltage Curve



Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91 mm
No. of Cells	144 (6 × 24)
Dimensions	2278mm×1134mm×35mm
Weight	27.4kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL/IEC) Length: (+) 1300mm (-) 200mm/length can be customized
Connectors	MC4 / MC4 Compatible
Packaging Configuration	31pcs / box, 620pcs / 40'HQ Container

Quality System: ISO 9001 / ISO 14001 / ISO45001