

AD305-72S AD300-72S AD295-72S AD290-72S





IEC 61215.2 IEC 61730

Module

ADxxx-72S series is a medium-powered module product ideal for roof top or ground mounted large, medium or small sized off-grid and on-grid solar power systems where long term economics, reliability and environmental issues are of a real concern.

ADxxx-72S have gone through various rigorous in-house reliability tests, i.e., LID under natural sunlight as well as artificial sunlight to guarantee the rated power output.

KEY FEATURES

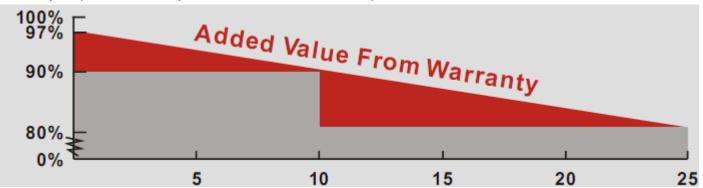
- 72 Mono-Crystalline solar cells
- Unique frame design to reinforce sealing and to prevent freezing and warping
- Strong aluminum frames to strengthen the load hold and to stand against high wind
- Special mounting holes on the frames for long and short side mounting
- High transparency low iron tempered glass with enhanced stiffness and impact resistance
- Advanced EVA encapsulation system with multilayer backsheets to better product modules

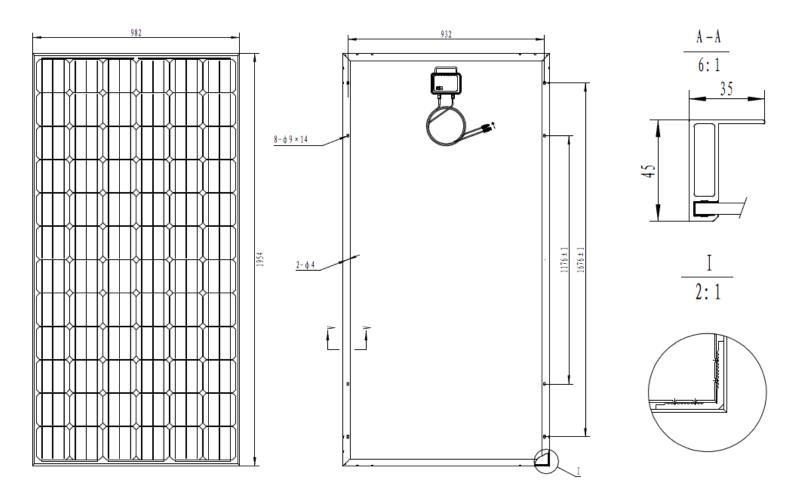
APPLICATIONS

- Large on and off-grid solar power stations
- Commercial/industrial building roof-top systems
- Residential roof-top systems
- Other industrial and commercial applications

LIMITED WARRANTY

- 25 year linear power output warranty
- 15 year product warranty on materials and workmanship





Electrical Characteristics

All specified Parameters are at STC 25 $^{\circ}$ C Ambient, 1000W/ m^2 irradiance and AM 1.5

Туре		AD290-72S	AD295-72S	AD300-72S	AD305-72S	AD310-72S
Max-Power	Pm(W)	290	295	300	305	310
Module Power Range	(W)	295>Pm≥290	300>Pm≥295	305>Pm≥300	310>Pm≥305	Pm≥310
Power Tolerance	(W)	+0~+5	+0~+5	+0~+5	+0~+5	+0~+5
Max-Power Voltage	Vm(V)	36.3	36.4	36.5	36.6	36.7
Max-Power Current	Im(A)	8.00	8.11	8.22	8.34	8.45
Open-Circuit Voltage	Voc(V)	44.7	44.8	44.9	44.9	45.0
Short-Circuit Current	Isc(A)	8.50	8.61	8.72	8.83	8.95
Max-System Voltage	(VDC)			1000V(IEC)		
Cell Efficiency	(%)	16.9	17.1	17.4	17.7	18.0
Module Efficiency	(%)	15.1	15.4	15.6	15.9	16.2
Max.Series Fuse	(A)	15				
Pm Temperature Coefficients	(%/°C)	-0.5141				
Isc Temperature Coefficients	(%/℃)	0.0814				
Voc Temperature Coefficients	(%/℃)	-0.3910				
NOCT Nominal Operating Cell Temperature		45±2℃				

Maximum load rating:5400Pa(112.78lbf/ft²)

Mechanical Characteristics

Cable type,Diameter and Length		4mm ² ,TUV certified,900mm	
Type of Connector		Compatible with MC4 plug	
Number, type and arrangement of cells		72pcs,Mono-Crystalline Silicon(6×12)	
Cell Size	(mm)	156×156(D200)	
Dimension	(mm)	1954×982×45	
Weight	(Kg)	28	
Glass, Type and Thickness		High Transmission,Low Iron,Tempered	
		Glass 4.0mm	

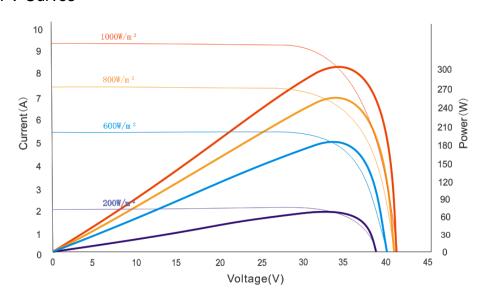
Packaging Configuration

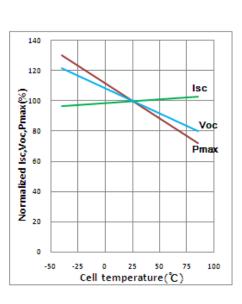
Packing Configuration	22 pcs/box
Quantity/Pallet	44 pcs/pallet
Loading Capacity	484 pcs/40ft(H)

Absolute Ratings

Dielectric Insulation Voltage		3000V
Operating Temperature	(℃)	-40~+85
Storage Temperature	(℃)	-40~+85

I-V Curves





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I-V Curves at different Irradiances (AM1.5 25° C)

Specifications included in this datasheet are subject to change without prior notice

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