



AD200-48S

AD195-48S AD190-48S

AD185-48S AD180-48S

IEC61215.2

IEC61730

Module

ADxxx-48S 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-48S 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

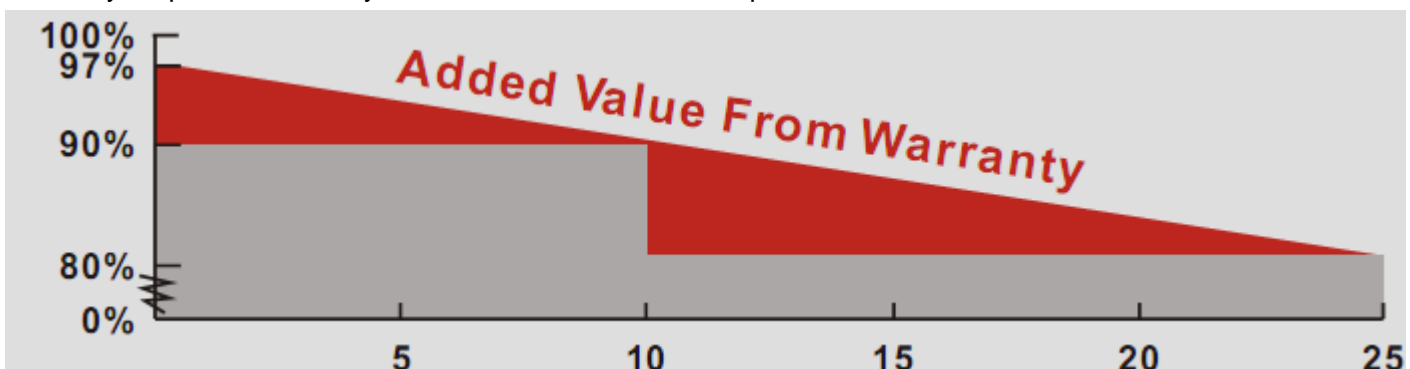
- 48 Mono-Crystalline solar cells
- Unique frame design to reinforce sealing and to prevent freezing and warping
- Strong aluminum frames to strengthen the load hold and to stand against high wind
- Special mounting holes on the frames for long and short side mounting
- High transparency low iron tempered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

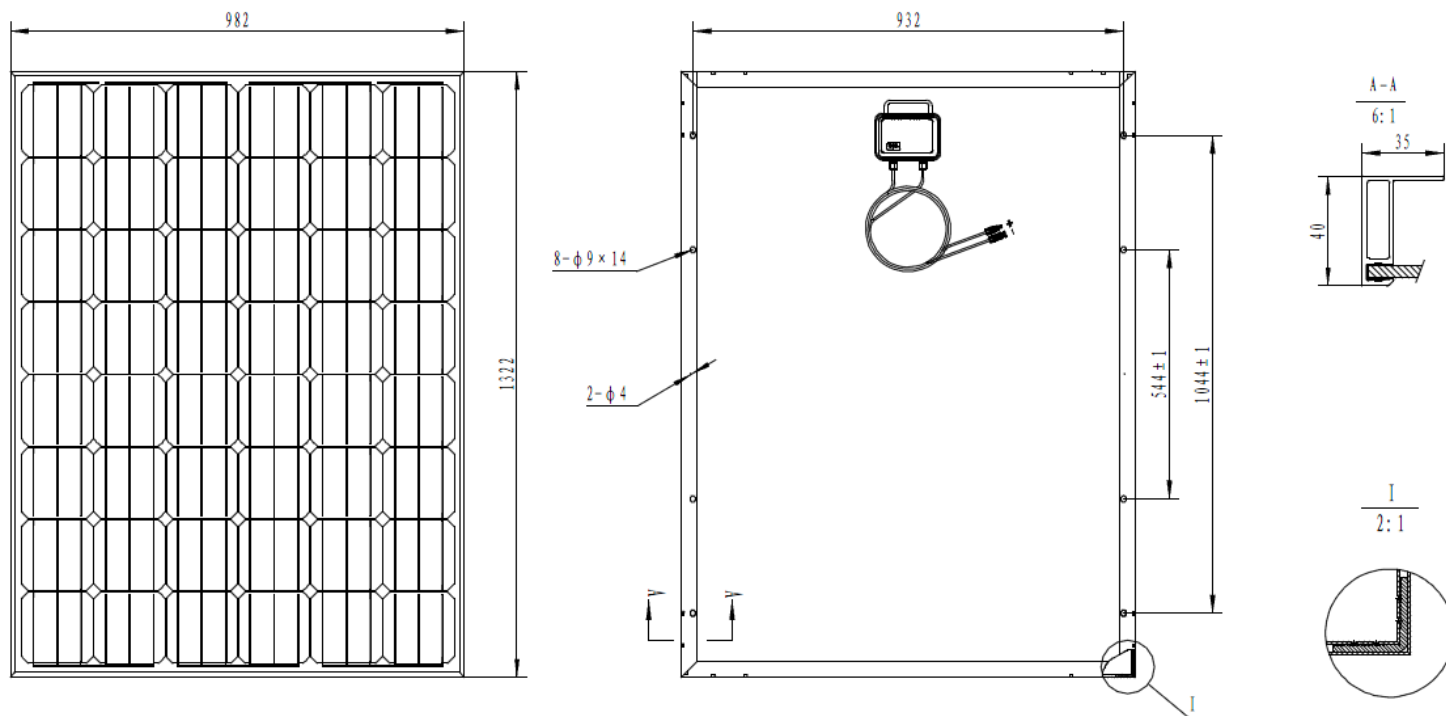
APPLICATIONS

- 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°C Ambient, 1000W/ m² irradiance and AM 1.5

Type		AD180-48S	AD185-48S	AD190-48S	AD195-48S	AD200-48S
Max-Power	P _m (W)	180	185	190	195	200
Module Power Range	(W)	185 > P_m ≥ 180	190 > P_m ≥ 185	195 > P_m ≥ 190	200 > P_m ≥ 195	P_m ≥ 200
Power Tolerance	(W)	+0~+5	+0~+5	+0~+5	+0~+5	+0~+5
Max-Power Voltage	V _m (V)	23.9	24.0	24.1	24.2	24.3
Max-Power Current	I _m (A)	7.54	7.72	7.89	8.06	8.23
Open-Circuit Voltage	V _{oc} (V)	29.5	29.6	29.7	29.8	29.9
Short-Circuit Current	I _{sc} (A)	8.03	8.21	8.39	8.57	8.76
Max-System Voltage	(VDC)	1000V(IEC)				
Cell Efficiency	(%)	15.7	16.1	16.6	17.0	17.4
Module Efficiency	(%)	13.9	14.3	14.6	15.0	15.4
Max.Series Fuse	(A)	15				
P _m Temperature Coefficients	(%/°C)	-0.5141				
I _{sc} Temperature Coefficients	(%/°C)	0.0814				
V _{oc} Temperature Coefficients	(%/°C)	-0.3910				
NOCT Nominal Operating Cell Temperature		45 ± 2°C				

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

Mechanical Characteristics

Cable type,Diameter and Length	4mm²,TUV certified,900mm
Type of Connector	Compatible with MC4 plug
Number,type and arrangement of cells	48pcs,Mono-Crystalline Silicon(6×8)
Cell Size (mm)	156×156(D200)
Dimension (mm)	1322×982×40
Weight (Kg)	15
Glass,Type and Thickness	High Transmission,Low Iron,Tempered Glass 3.2mm

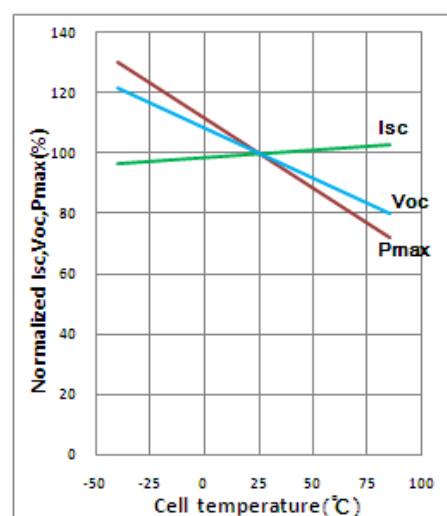
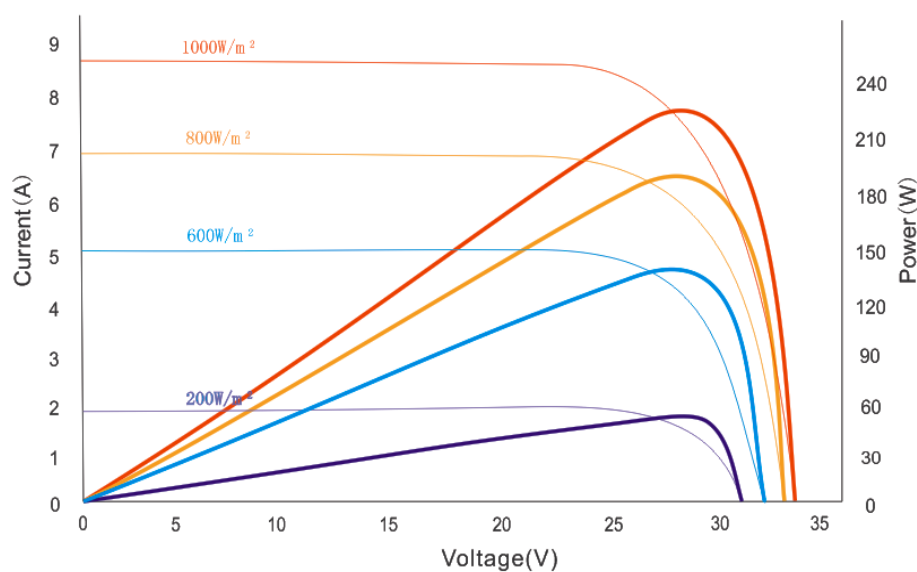
Packaging Configuration

Packing Configuration	25 pcs/box
Quantity/Pallet	50 pcs/pallet
Loading Capacity	800 pcs/40ft(H)

Absolute Ratings

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

I-V Curves



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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