



AD205-72M

AD200-72M AD195-72M

AD190-72M AD185-72M

Monocrystalline Solar Module – ADxxx-72M



IEC61215.2

IEC61730

Module

ADxxx-72M 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-72M 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

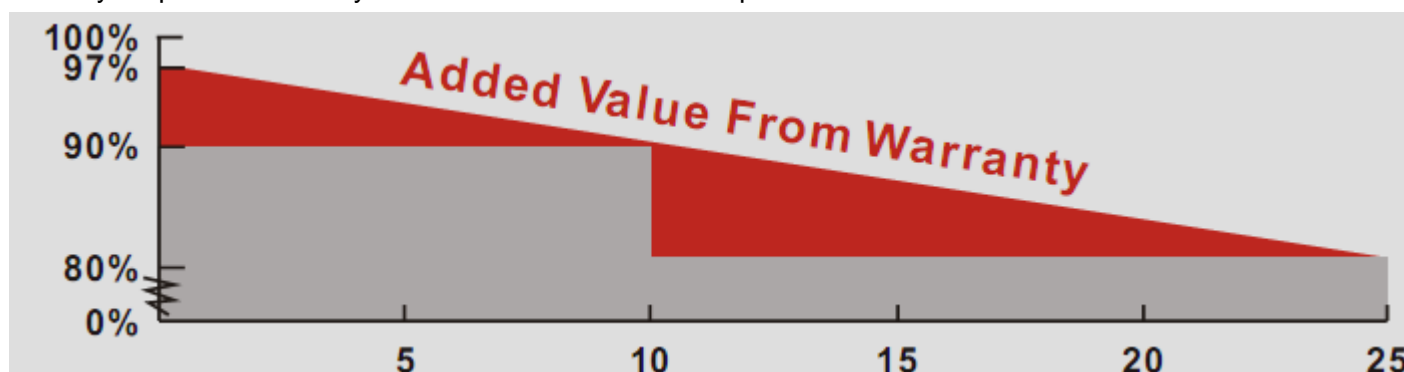
- 72 Mono-Crystalline solar cells
- Unique frame design to reinforce sealing and to prevent freezing and warping
- Strong aluminum frames to strengthen the load hold and to stand against high wind
- Special mounting holes on the frames for long and short side mounting
- High transparency low iron tempered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

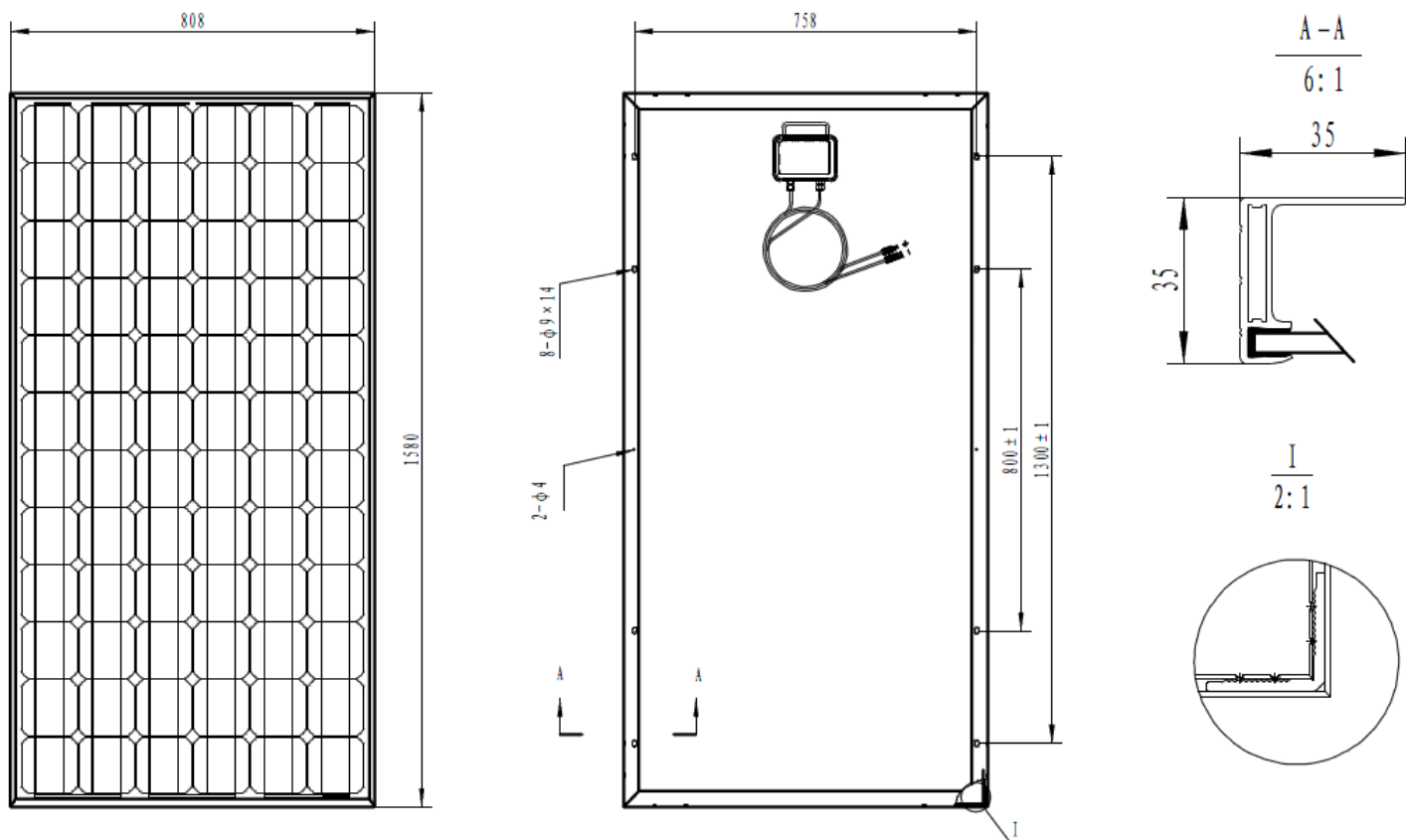
APPLICATIONS

- 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		AD185-72M	AD190-72M	AD195-72M	AD200-72M	AD205-72M
Max-Power	P _m (W)	185	190	195	200	205
Module Power Range	(W)	190>P _m ≥185	195>P _m ≥190	200>P _m ≥195	205>P _m ≥200	P _m ≥205
Power Tolerance	(W)	+0~+5	+0~+5	+0~+5	+0~+5	+0~+5
Max-Power Voltage	V _m (V)	36.3	36.7	37.1	37.5	37.9
Max-Power Current	I _m (A)	5.10	5.18	5.26	5.34	5.41
Open-Circuit Voltage	V _{oc} (V)	44.4	44.5	44.6	44.6	44.7
Short-Circuit Current	I _{sc} (A)	5.48	5.59	5.69	5.80	5.91
Max-System Voltage	(VDC)	1000V(IEC)				
Cell Efficiency	(%)	16.6	17.0	17.5	17.9	18.4
Module Efficiency	(%)	14.5	14.9	15.3	15.7	16.1
Max.Series Fuse	(A)	10				
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		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)	ADxxx-72M	125×125 (D165)
Dimension (mm)		1580×808×35
Weight (Kg)		15.5
Glass,Type and Thickness		High Transmission,Low Iron,Tempered Glass 3.2mm

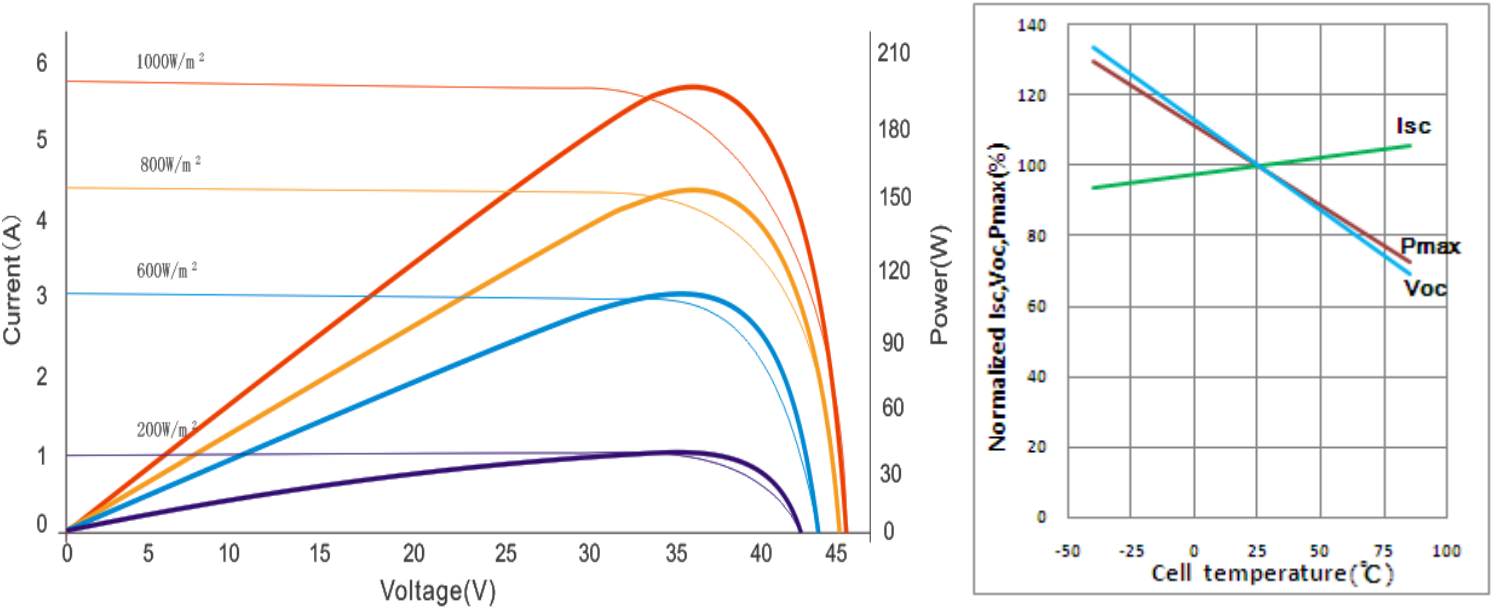
Packaging Configuration

Packing Configuration	28 pcs/box
Quantity/Pallet	56 pcs/pallet
Loading Capacity	784 pcs/40ft

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

Jiangsu Aiduo PV Technology Co.,Ltd
Zhoubei Industrial Zone, Zhouzhuang Town, Jiangyin
City,Jiangsu Province,People’s Republic of China
Rev.A/1204

Tel: +86-510-68823011
Fax: +86-510-688286681
E-mail: sales@aiduopv.com
Web Site: www.aiduopv.com