



## AD280-96M

AD275-96M    AD270-96M  
AD265-96M    AD260-96M



IEC61215.2  
IEC61730

### Module

ADxxx-96M 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-96M 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

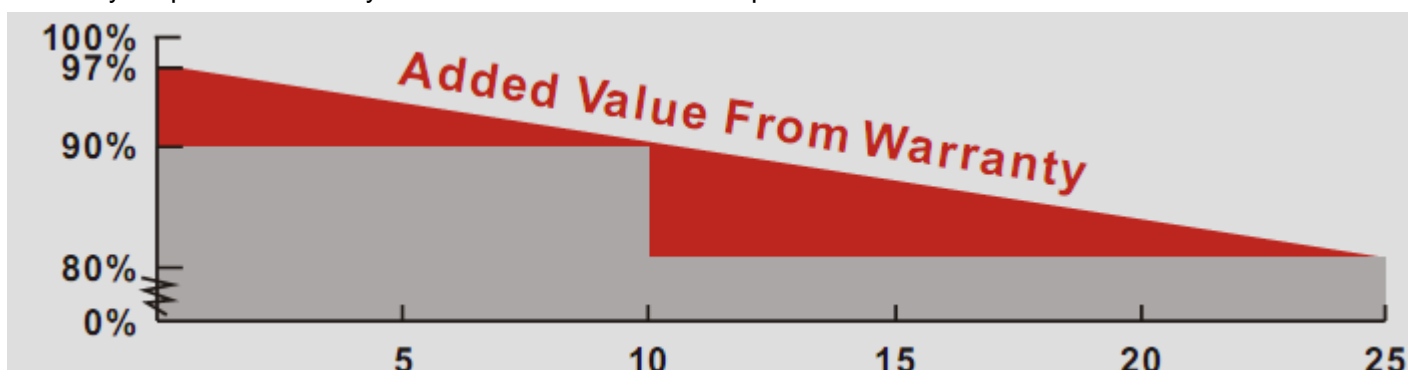
- 96 Mono-Crystalline solar cells
- Unique frame design to reinforce sealing and to prevent freezing and warping
- Strong aluminum frames to strengthen the load hold and to stand against high wind
- Special mounting holes on the frames for long and short side mounting
- High transparency low iron tempered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

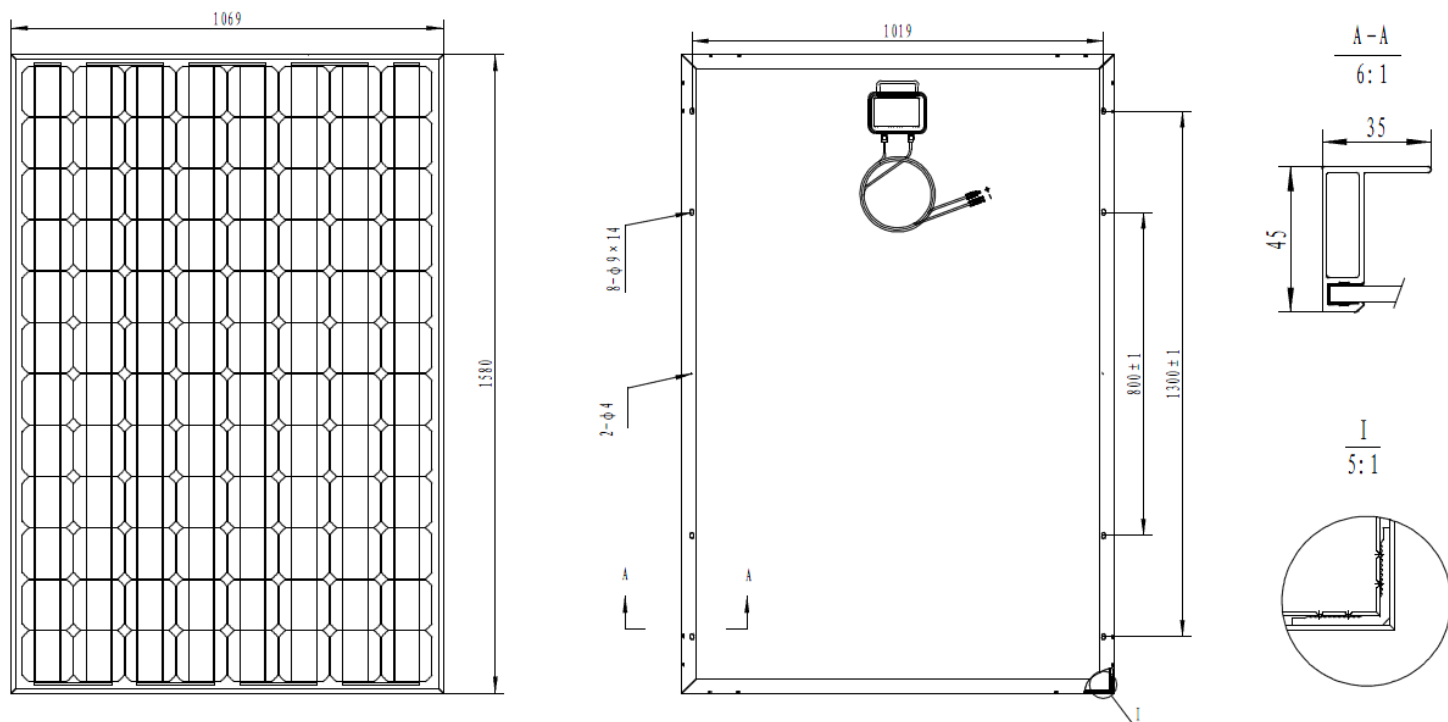
### APPLICATIONS

- 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/ m<sup>2</sup> irradiance and AM 1.5

Type		AD260-96M	AD265-96M	AD270-96M	AD275-96M	AD280-96M
Max-Power	Pm(W)	<b>260</b>	<b>265</b>	<b>270</b>	<b>275</b>	<b>280</b>
Module Power Range	(W)	<b>265 &gt; Pm ≥ 260</b>	<b>270 &gt; Pm ≥ 265</b>	<b>275 &gt; Pm ≥ 270</b>	<b>280 &gt; Pm ≥ 275</b>	<b>Pm ≥ 280</b>
Power Tolerance	(W)	<b>+0~+5</b>	<b>+0~+5</b>	<b>+0~+5</b>	<b>+0~+5</b>	<b>+0~+5</b>
Max-Power Voltage	Vm(V)	<b>49.4</b>	<b>49.7</b>	<b>50.0</b>	<b>50.3</b>	<b>50.6</b>
Max-Power Current	Im(A)	<b>5.27</b>	<b>5.34</b>	<b>5.40</b>	<b>5.47</b>	<b>5.54</b>
Open-Circuit Voltage	Voc(V)	<b>60.0</b>	<b>60.1</b>	<b>60.2</b>	<b>60.3</b>	<b>60.4</b>
Short-Circuit Current	Isc(A)	<b>5.63</b>	<b>5.70</b>	<b>5.76</b>	<b>5.82</b>	<b>5.88</b>
Max-System Voltage	(VDC)	<b>1000V(IEC)</b>				
Cell Efficiency	(%)	<b>17.5</b>	<b>17.8</b>	<b>18.2</b>	<b>18.5</b>	<b>18.8</b>
Module Efficiency	(%)	<b>15.4</b>	<b>15.7</b>	<b>16.0</b>	<b>16.3</b>	<b>16.6</b>
Max.Series Fuse	(A)	<b>10</b>				
Pm Temperature Coefficients	(%/°C)	<b>-0.5141</b>				
Isc Temperature Coefficients	(%/°C)	<b>0.0814</b>				
Voc Temperature Coefficients	(%/°C)	<b>-0.3910</b>				
NOCT Nominal Operating Cell Temperature		<b>45 ± 2°C</b>				

Maximum load rating:5400Pa(112.78lbf/ft<sup>2</sup>)

## Mechanical Characteristics

Cable type,Diameter and Length	<b>4mm<sup>2</sup>,TUV certified,900mm</b>
Type of Connector	<b>Compatible with MC4 plug</b>
Number,type and arrangement of cells	<b>96pcs,Mono-Crystalline Silicon(8×12)</b>
Cell Size (mm)	<b>125×125 (D165)</b>
Dimension (mm)	<b>1580×1069×45</b>
Weight (Kg)	<b>21</b>
Glass,Type and Thickness	<b>High Transmission,Low Iron,Tempered Glass 3.2mm</b>

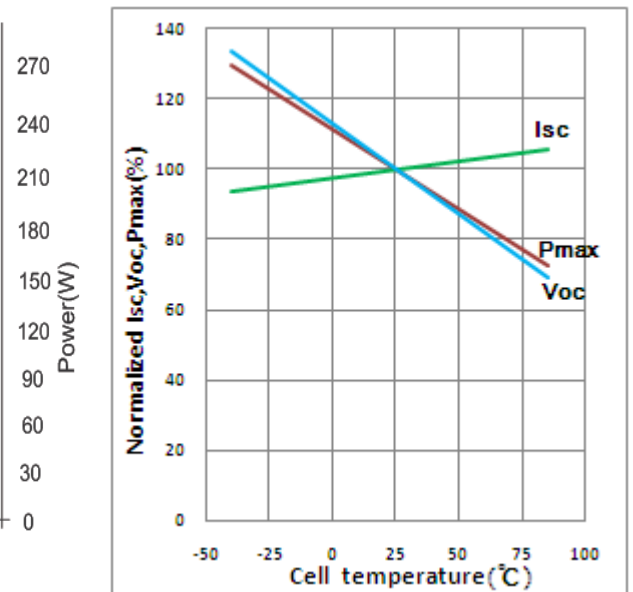
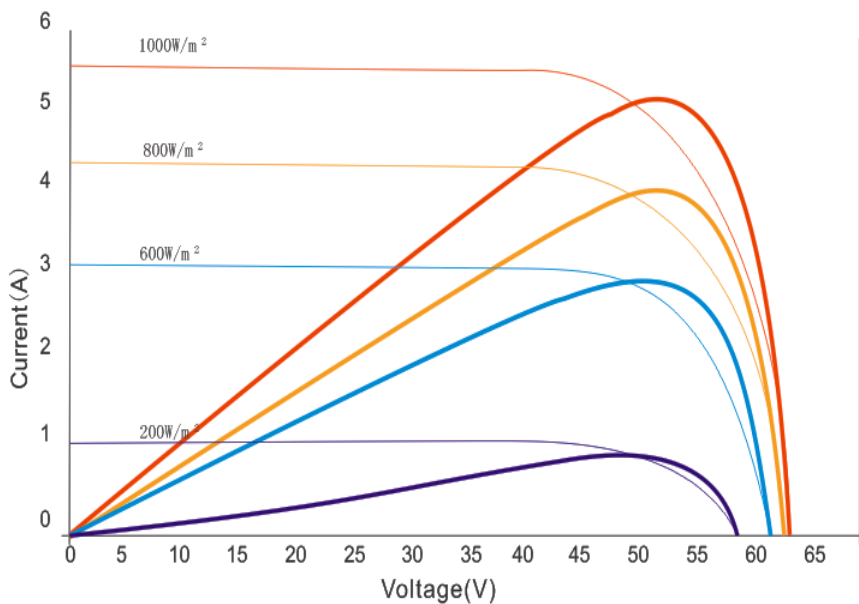
## Packaging Configuration

Packing Configuration	<b>22 pcs/box</b>
Quantity/Pallet	<b>44 pcs/pallet</b>
Loading Capacity	<b>616 pcs/40ft(H)</b>

## Absolute Ratings

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

## 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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