

# Aurora Series

Jiangsu Runda PV Co., Ltd.

## 550W MBB Mono Crystalline Half-cell Bifacial Module S8-144 530~550W



- ▲ Higher output power
- ▲ Module efficiency up to 21.3 %
- ▲ Lower temperature coefficient



- ▲ Lower LCOE (Levelized Cost Of Energy)
- ▲ High Power output lead to lower BOS cost



- ▲ ISO9001:2015 Quality Management system
- ▲ ISO14001:2015 Environmental Management System
- ▲ ISO45001:2018 Occupational Health and Safety Management System



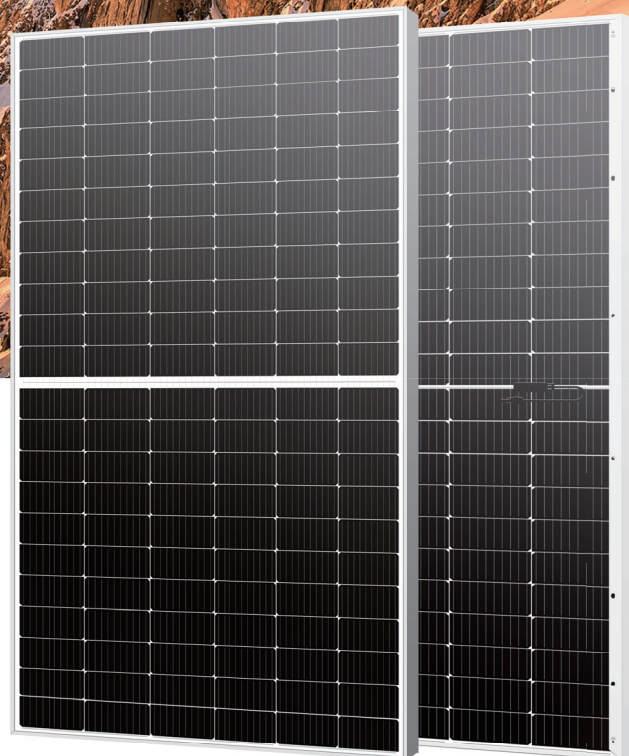
- ▲ Salt Mist Corrosion Protect
- ▲ Ammonia Resistance



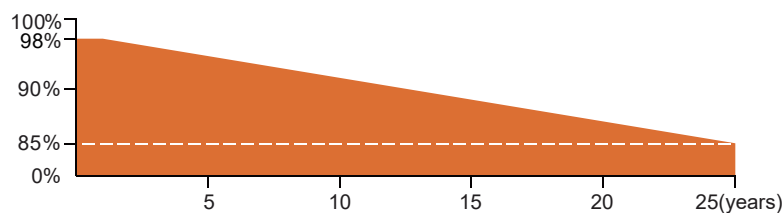
Excellent Potential Induced Degradation Resistance



Excellent Wind Load 2400Pa&Snow Load 5400Pa Under Certain Installation Method



### Runda's linear performance warranty



**12** Years  
Material&Craft  
Quality  
assurance

**25** Years  
85% output  
Power  
guarantee

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# Aurora Series

RS530~550S8-144

## Electrical Characteristics(STC\*)

|                              |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|
| Power Output(Wp)             | 530   | 535   | 540   | 545   | 550   |
| Max Power Tolerance(W)       | 0-5   | 0-5   | 0-5   | 0-5   | 0-5   |
| Module Efficiency(%)         | 20.5  | 20.7  | 20.9  | 21.1  | 21.3  |
| Voltage Mpp-Vmpp(V)          | 41.28 | 41.51 | 41.70 | 41.92 | 42.11 |
| Current Mpp-Impp(A)          | 12.84 | 12.89 | 12.95 | 13.00 | 13.06 |
| Voltage Open Circuit-Voc(V)  | 49.61 | 49.87 | 49.95 | 50.04 | 50.28 |
| Short Circuit Current-Isc(A) | 13.66 | 13.72 | 13.78 | 13.84 | 13.90 |

\*STC:Irradiance 1000 W/m², Environment Temperature 25°C, Air Mass AM1.5

## Electrical Characteristics With 10% Rear Side Power Gain

|                              |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|
| Power Output(Wp)             | 583   | 589   | 594   | 600   | 605   |
| Voltage Mpp-Vmpp(V)          | 41.28 | 41.51 | 41.70 | 41.92 | 42.11 |
| Current Mpp-Impp(A)          | 14.12 | 14.18 | 14.25 | 14.30 | 14.37 |
| Voltage Open Circuit-Voc(V)  | 49.61 | 49.87 | 49.95 | 50.04 | 50.28 |
| Short Circuit Current-Isc(A) | 15.03 | 15.09 | 15.16 | 15.22 | 15.29 |

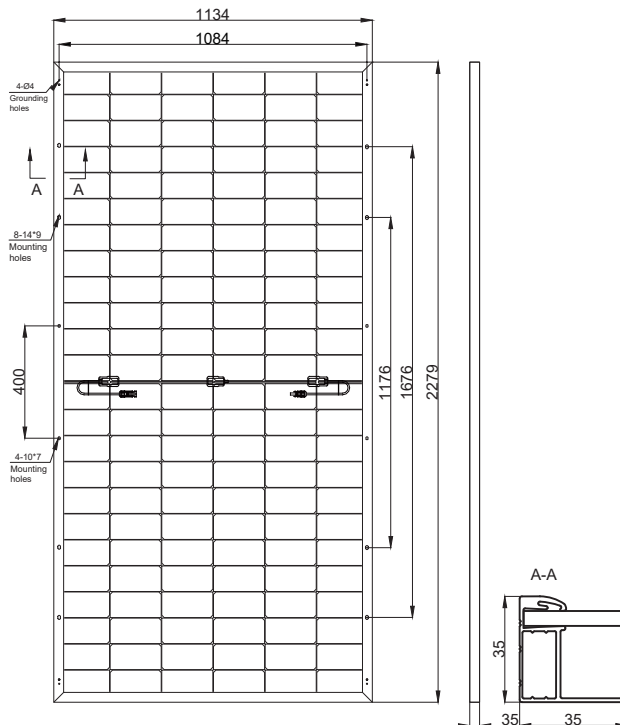
\*Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground

## Electrical Characteristics(NMOT\*)

|                              |        |        |        |        |        |
|------------------------------|--------|--------|--------|--------|--------|
| Power Output(Wp)             | 407.16 | 411.01 | 414.85 | 418.69 | 422.53 |
| Voltage Mpp-Vmpp(V)          | 37.62  | 37.83  | 38.01  | 38.21  | 38.39  |
| Current Mpp-Impp(A)          | 10.82  | 10.86  | 10.91  | 10.96  | 11.01  |
| Voltage Open Circuit-Voc(V)  | 45.80  | 46.04  | 46.12  | 46.20  | 46.42  |
| Short Circuit Current-Isc(A) | 11.61  | 11.66  | 11.72  | 11.77  | 11.82  |

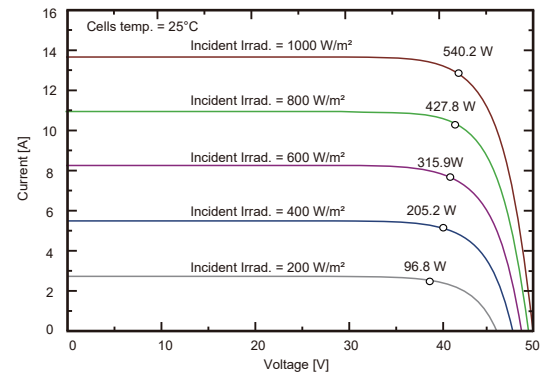
\*NMOT:Irradiance 800 W/m², Environment Temperature 20°C, Air Mass AM1.5

## Module Structure Drawing

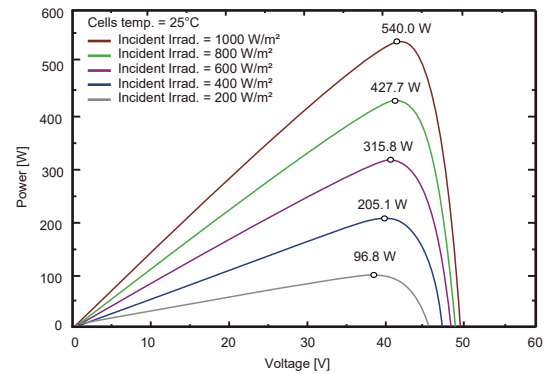


\*400mm mounting holes are only suitable for 6005-T6 aluminum frame

## I-V Curves(540W)



## P-V Curves(540W)



## Mechanical Data

|                     |                                 |
|---------------------|---------------------------------|
| Dimension Of Module | 2279*1134*35mm                  |
| Weight              | 27kg                            |
| Glass               | High transmission glass 3.2mm   |
| Cables              | 4mm²/300mm or Customized Length |
| Junction Box        | IP68, 3 Bypass-Diode            |
| Connector           | MC4 compatible                  |

## Packaging Configuration

|                  |               |
|------------------|---------------|
| Loading Capacity | 620 pcs/40'HQ |
|------------------|---------------|

## Working Conditions

|                         |                         |
|-------------------------|-------------------------|
| Max System Voltage(VDC) | 1500V                   |
| Max Series Fuse Rating  | 25A                     |
| Maximum Load Capacity   | Snow 5400Pa/Wind 2400Pa |
| Operating Temperature   | -40~+85                 |
| Safety Class            | II                      |
| Power Bifaciality       | 65±5%                   |

## Temperature Ratings

|                                        |         |
|----------------------------------------|---------|
| Temperature Coefficients of Isc(%/°C)  | 0.046   |
| Temperature Coefficients of Voc(%/°C)  | -0.266  |
| Temperature Coefficients of Pmpp(%/°C) | -0.354  |
| NMOT                                   | 45±2 °C |