Jiangsu Runda PV Co.,Ltd.

Beyonder Series

455W MBB
Bifacial Double Glass
Mono PERC Half-cell Module
S7-144GA 435~455W

Certification

- ▲ Higher output power
- ▲ Module efficiency up to 20.9%
- ▲ Lower temperature coefficient
- ▲ Up to 30% additional power gain from back side depending on albedo

Efficiency

- ▲ 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

2400Pa
5400Pa

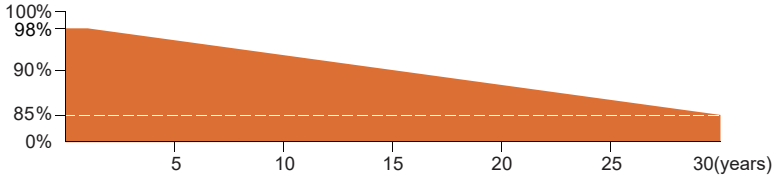
- ▲ Salt Mist Corrosion Protect
- ▲ Ammonia Resistance

Excellent Potential Induced Degradation Resistance

PID FREE

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

Runda's linear performance warranty



12 Years Material&Craft **Quality assurance**

30 Years **Power guarantee**

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Beyonder Series

RS435~455S7-144GA

Jiangsu Runda PV Co.,Ltd.

Electrical Characteristics(STC*)

Power Output(Wp)	435	440	445	450	455
Max Power Tolerance(W)	0-5	0-5	0-5	0-5	0-5
Module Efficiency(%)	20.0	20.2	20.5	20.7	20.9
Voltage Mpp-Vmpp(V)	40.88	41.08	41.28	41.47	41.70
Current Mpp-Impp(A)	10.64	10.71	10.78	10.85	10.91
Voltage Open Circuit-Voc(V)	48.84	49.05	49.28	49.51	49.75
Short Circuit Current-Isc(A)	11.57	11.64	11.71	11.78	11.84

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

Electrical Characteristics With 10% Rear Side Power Gain

Power Output(Wp)	479	484	490	495	501
Voltage Mpp-Vmpp(V)	40.88	41.08	41.28	41.47	41.70
Current Mpp-Impp(A)	11.70	11.78	11.86	11.94	12.00
Voltage Open Circuit-Voc(V)	48.84	49.05	49.28	49.51	49.75
Short Circuit Current-Isc(A)	12.73	12.80	12.88	12.96	13.02

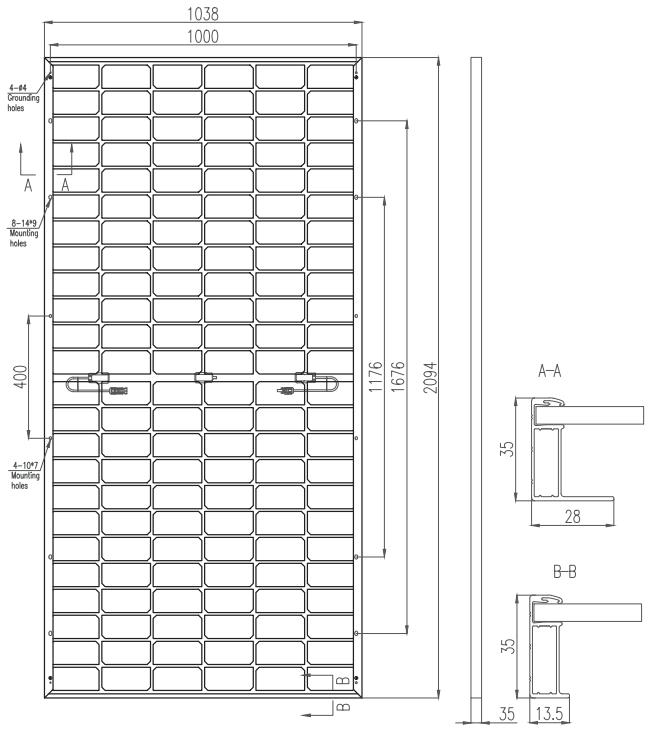
*Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition.It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground

Electrical Characteristics(NMOT*)

Power Output(Wp)	334.18	338.02	341.86	345.71	349.55
Voltage Mpp-Vmpp(V)	37.27	37.45	37.63	37.80	38.01
Current Mpp-Impp(A)	8.97	9.03	9.09	9.14	9.20
Voltage Open Circuit-Voc(V)	45.09	45.29	45.50	45.71	45.93
Short Circuit Current-Isc(A)	9.84	9.90	9.96	10.02	10.07

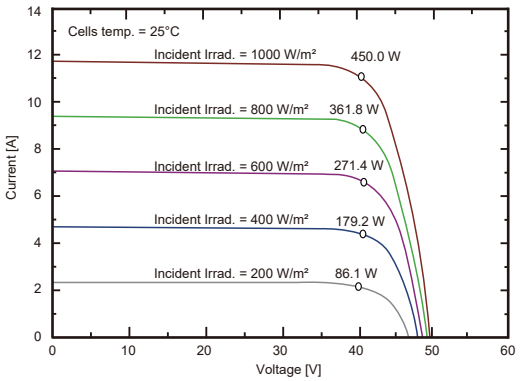
*NMOT:Irradiance 800 W/m²,Environment Temperature 20℃,Air Mass AM1.5

Module Structure Drawing

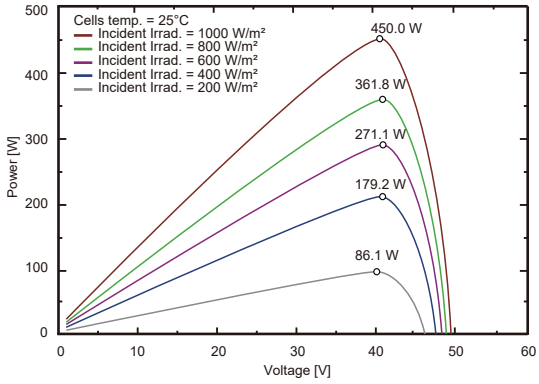


*400mm mounting holes are only suitable for 6005-T6 aluminum frame

I-V Curves(450W)



P-V Curves(450W)



Mechanical Data

Dimension Of Module	2094*1038*35mm
Weight	27.5kg
Front/Back Glass	2.0mm heat strengthened glass
Cables	4mm²/300mm or Customized Length
Junction Box	IP68,3 Bypass-Diode
Connector	MC4 compatible

Packaging Configuration

Loading Capacity	682 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	70±5%

Temperature Ratings

Temperature Coefficients of Isc(%/℃)	0.026
Temperature Coefficients of Voc(%/℃)	-0.272
Temperature Coefficients of Pmpp(%/℃)	-0.353
NMOT	45±2℃

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

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