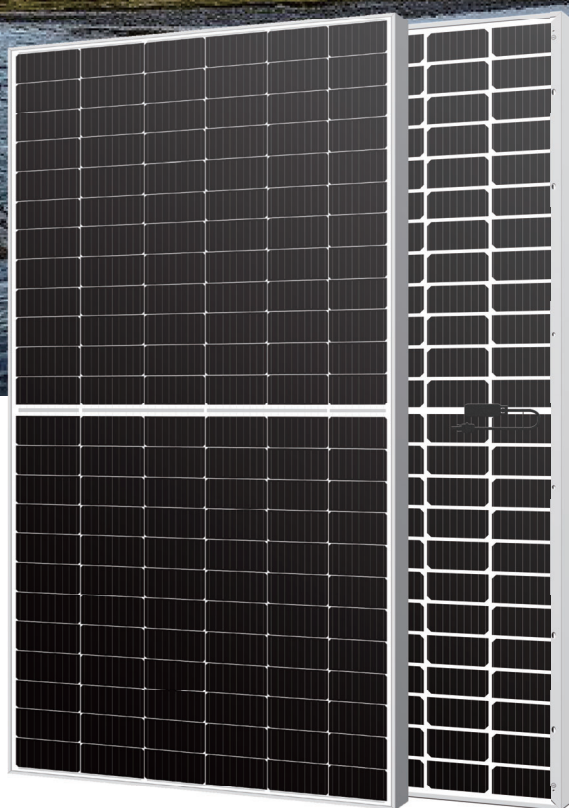


Beyond Series

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



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



- ▲ 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

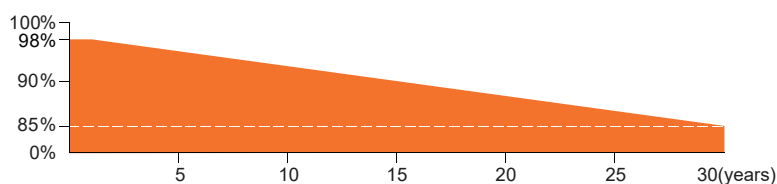


Excellent Potential Induced Degradation Resistance



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

Runda's linear performance warranty



Beyonder Series

RS435~455S7-144GA

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-Imp(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, Cell Temperature 25°C, 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-Imp(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

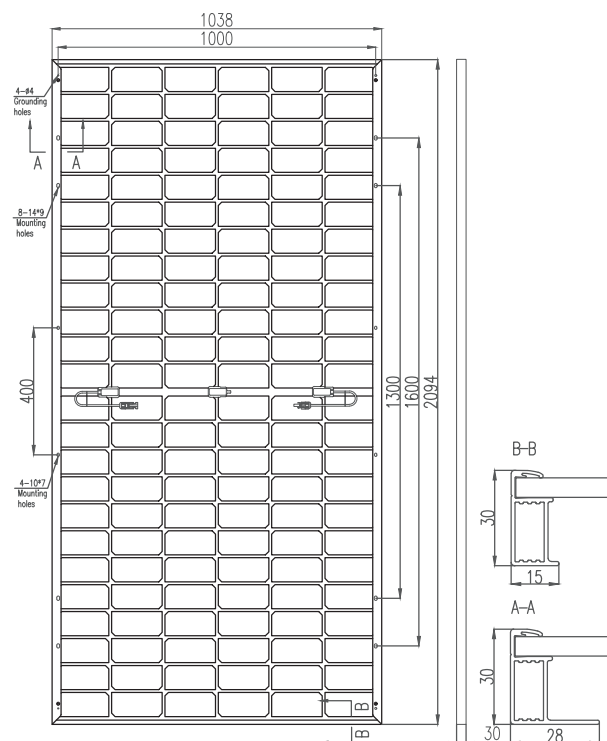
*Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground

Electrical Characteristics(NMOT*)

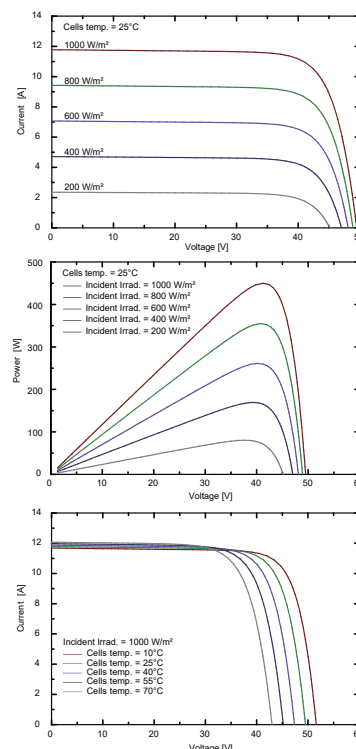
Power Output(Wp)	334.18	338.02	341.86	345.71	349.55
Voltage Mpp-Vmpp(V)	37.27	37.45	37.63	37.80	38.01
Current Mpp-Imp(A)	8.97	9.03	9.09	9.14	9.20
Voltage Open Circuit-Voc(V)	45.09	45.29	45.50	45.71	45.93
Short Circuit Current-Isc(A)	9.84	9.90	9.96	10.02	10.07

*NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Module Structure Drawing



Curves(450W)



Mechanical Data

Dimension Of Module	2094*1038*30mm
Weight	27.5kg
Front/Back Glass	2.0mm heat strengthened glass
Cables	4mm²/300mm or Customized Length
Junction Box	IP68, 3 bypass diodes
Connector	MC4 compatible

Packaging Configuration

Frame	30mm
Container	40'HQ
Loading Capacity	792 pcs

Working Conditions

Max System Voltage(VDC)	1500V
Max Series Fuse Rating	25A
Maximum Load Capacity	Snow 5400Pa/Wind 2400Pa
Operating Temperature	-40°C~+85°C
Safety Class	II
Power Bifaciality	70±5%

Temperature Ratings

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