

RAYSOLAR DOUBLE-GLASS BIFACIAL MODULE

60CELLS/5BB P-TYPE/MONO/BIFACIAL

305-315W POWER OUTPUT

19.1%
MAX. EFFICIENCY







COMPANY PROFILE

Ningbo RayTech New Energy Materials Co., Ltd. (RayTech) focuses on New Energy & New Materials manufacturing, and integrates Product R&D, Designing, Manufacturing, Sales, After-sale Service as a "One-stop Product & Service Solution Provider" enterprises. The company's headquarter is based in Hangzhou Bay New District, Ningbo City, Zhejiang Province, China. RayTech' s main focus is in two sectors: "solar modules manufacturing & solar system integration" and "smart glass panel materials". The company has a sophisticated Research & Development team, a State Key Laboratory, and an Al-integrated fully-automated factory.

The company has an annual solar module production capacity of 1.2GW, producing both single-glass and double-glass solar modules. The company's smart glass panel material annual manufacturing capacity is 1 million square meters. The smart glass panels support multiple functions such as spatial separation, remote AI control, light brightness and temperature control. The company's factories are located in Zhejiang, Jiangsu and Shandong.

RayTech is dedicated to providing products that can bring optimized values to the customers. The company's sustainable development concept are "Solar makes life better" and "Let modern science and technology perfectly integrate with the nature". Core corporate culture is "Be Pragmatic, Inclusive, Refined and Innovative".

PRODUCT FEATURES



Exceptional Product Durability

- High Resistance to PID;
- Low Risk of Micro-cracks; Zero Snail Trails Probability;



Working Condition Compatibility & Safety

- High Resistance to High Temp., High Humidity, Sand, Acid and Alkali Environment;
- 5400Pa Snow Loading, 2400Pa Wind Loading;
- Passed Hail Test (35mm Diameter, 97km/h);
- Class-A Fireproofing;



Optimized Power Gain

- 25% Max. Rear-side Power Gain;
- Better Low-Light Performance;



Higher-Than-Ever ROI

- 1500V System Voltage, Lower BOS Cost;
- Annual Degradation < 0.5%, 30-year Linear Performance Warranty;
- Frameless Design, Easier Surface Cleaning, Lower O&M Cost:

CERTIFICATION

















CONTACT US

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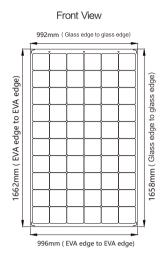


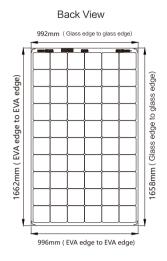


P-type Bifacial Double-Glass Module (60 Cells): 305-315W

ENGINEERING DRAWING

MECHANICAL SPECIFICATIONS





Mono crystalline (156.75mm*156.75mm)
60(6*10)
1658*992*6 (1662*996*6with edge banding)
23.0
2.5 Semi tempered coated glass
EVA/POE/PVB
2.5 Semi tempered glass
Ip67 Rated, 3 by-pass diodes
Multi-Contact MC4(or equivalent)
No frame
2400(wind load)/5400(snow load)

ELECTRICAL CHARACTERISTICS								
		BPDM60(S)-305		BPDM60(S)-310		BPDM60(S)-315		
		STC	NMOT	STC	NMOT	STC	NMOT	
Maximum Power at STC [Pmax]	[W]	305	226	310	229	315	235	
Open Circuit Voltage [Voc]	[V]	39.62	36.64	39.87	36.87	40.1	37.08	
Short Circuit Current [Isc]	[A]	9.80	7.90	9.85	7.94	9.95	8.02	
Voltage at Maximum Power point[Vm]	[V]	32.66	29.68	32.95	29.95	33.01	30.20	
Current at Maximum Power point[Im]	[A]	9.34		9.41	7.66	9.54	7.77	
Power Tolerance	[%]	0~+3%						
Module Efficiency	[%]	18.5		18.8		19.1		

STC: Air Mass AM1.5, Ir-radiance 1000W/m² Cell temperature 25°C. NMOT: Air Mass AM1.5, Ir-radiance 800W/m² Ambient tempera-ture 20°C, wind speed 1m/s.

DOUBLE SIDES POWER OUTPUT (REAR-SIDE GAIN)

	5%			10%			15%		
Maximum Power [Pmax]	316	321	326	326	332	337	337	343	348
Module Efficiency	19.2	19.5	19.8	19.8	20.1	20.4	20.4	20.8	21.1

WORKING CONDITIONS				
Maximum System Voltage(With S)	[V]	1000 DC(IEC)		
Maximum System Voltage(Without S)	[V]	1500 DC(IEC)		
Operating Temperature	[℃]	-40~+85		
Nominal Operating Cell Temperature	[℃]	45±3		
Maximum rated current	[A]	15		

TEMPERATURE COEFFICIENTS

Temperature Coefficient of Pmax	[%/℃]	-0.42
Temperature Coefficient of Voc	[%/℃]	-0.33
Temperature Coefficient of Isc	[%/℃]	0.04

PACKAGE CONFIGURATION

Per box 38 pieces 40" HQ 988 pieces

ELECTRICAL CURVES

LINEAR PERFORMANCE WARRANTY

