



# RAYSOLAR DOUBLE-GLASS MODULE

60CELLS/5BB POLY MODULES

270-280W POWER OUTPUT





### **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;

## Flexible Transparency Design

 Sensible Solar Cells Layout Design; Transparency Customization upon Request;

# **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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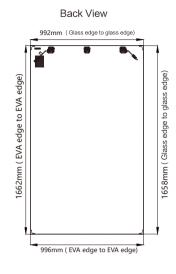


Wechat Public Account

# Double-Glass Poly Module (60 Cells): 270-280W

# ENGINEERING DRAWING

### Pront View 992mm ( Glass edge to glass edge) (EVA edge to 2000



## **MECHANICAL SPECIFICATIONS**

Cell Type	Poly crystalline (156.75mm*156.75mm)			
Solar Cells	60(6*10)			
Module Dimension [mm]	1658*992*6 (1662*996*6with edge banding)			
Weight [Kg]	23.0			
Front Glass [mm]	2.5 Semi tempered coated glass			
Interlayer	EVA/POE/PVB			
Back Glass [mm]	2.5 Semi tempered glass			
Junction Box	Ip67 Rated, 3 by-pass diodes			
Connector	Multi-Contact MC4(or equivalent)			
Frame	No frame			
Maximum Load Capacity [Pa]	2400(wind load)/5400(snow load)			

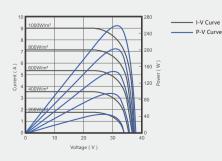
# **ELECTRICAL CHARACTERISTICS**

			DP60(S)-270	DP60(S)-275	DP60(S)-280
STC: Air Mass AM1.5,Ir- radiance 1000W/m Cell temperature 25°C	Maximum Power at STC [Pmax]	[W]	270	275	280
	Open Circuit Voltage [Voc]	[V]	38.07	38.20	38.31
	Short Circuit Current [Isc]	[A]	9.16	9.34	9.45
	Voltage at Maximum Power point[Vm]	[V]	31.15	31.23	31.30
	Current at Maximum Power point[Im]	[A]	8.67	8.81	8.95
	Power Tolerance	[%]	0~+3%		
	Module Efficiency	[%]	16.4	16.7	17.0
NMOT: Air Mass AM1.5, Ir- radiance 800W/m <sup>2</sup> Ambient tempera- ture 20°C, wind speed 1m/s.	Maximum Power at NMOT [Pmax]	[W]	200	204	207
	Open Circuit Voltage [Voc]	[V]	35.20	35.32	35.42
	Short Circuit Current [Isc]	[A]	7.39	7.53	7.62
	Voltage at Maximum Power point[Vm]	[V]	28.31	28.38	28.45
	Current at Maximum Power point[Im]	[A]	7.06	7.17	7.29
	Power Tolerance	[%]	0~+3%		

## **WORKING CONDITIONS**

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

## **ELECTRICAL CURVES**



## **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			

## LINEAR PERFORMANCE WARRANTY

