RAYSOLAR
DOUBLE-GLASS MODULE

72CELLS/5BB
PREMIUM MONO MODULES

370–375W
POWER OUTPUT

19.2%
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 AI-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
- 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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**ENGINEERING DRAWING**

Front View

Back View

**MECHANICAL SPECIFICATIONS**

- **Cell Type:** Mono crystalline (156.75mm*156.75mm)
- **Solar Cells:** 726*12
- **Module Dimension [mm]:** 1968*992*6 (1972*996*6 with edge banding)
- **Weight [Kg]:** 27.5
- **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**

<table>
<thead>
<tr>
<th></th>
<th>DM72S-370</th>
<th>DM72S-375</th>
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<tbody>
<tr>
<td>Maximum Power at STC [Pmax] [W]</td>
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<td>375</td>
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<tr>
<td>Open Circuit Voltage [Voc] [V]</td>
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<td>48.82</td>
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<tr>
<td>Short Circuit Current [Isc] [A]</td>
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<tr>
<td>Voltage at Maximum Power point [Vm] [V]</td>
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<tr>
<td>Current at Maximum Power point [Im] [A]</td>
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<td>9.32</td>
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<tr>
<td>Power Tolerance [%]</td>
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<td>0~+3%</td>
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<tr>
<td>Module Efficiency [%]</td>
<td>18.9</td>
<td>19.2</td>
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<td><strong>NMOT:</strong></td>
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<tr>
<td>Maximum Power at NMOT [Pmax] [W]</td>
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<td>Open Circuit Voltage [Voc] [V]</td>
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<td>Current at Maximum Power point [Im] [A]</td>
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<tr>
<td>Power Tolerance [%]</td>
<td>0~+3%</td>
<td>0~+3%</td>
</tr>
</tbody>
</table>

**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

**TEMPERATURE COEFFICIENTS**

- **Temperature Coefficient of Pmax [%/°C]:** -0.42
- **Temperature Coefficient of Voc [%/°C]:** -0.33
- **Temperature Coefficient of Isc [%/°C]:** 0.04

**PACKAGE CONFIGURATION**

- Per box 30 pieces
- 40” HQ 660 pieces

**ELECTRICAL CURVES**

**LINEAR PERFORMANCE WARRANTY**

- Single-Glass Solar Module Linear Performance Warranty
- Double-Glass Solar Module Linear Performance Warranty

- Guaranteed Power
- Linear Performance Warranty After Max

**NO MORE THAN 0.5% ANNUAL DEGRADATION OVER 30 YEARS**