

## RAYTECH SINGLE-GLASS MODULE

**72LAYOUT**  
MONOCRYSTALLINE MODULES

**390-405W**  
POWER OUTPUT

**19.9%**  
MAX. EFFICIENCY



### COMPANY PROFILE

Ningbo Raytech New Energy Materials Co., Ltd. (referred to as Raytech) is a national high-tech enterprise focusing on "new energy and new materials", integrating R&D, design, manufacturing sales and service. The company's main team has been focusing on the R&D and manufacturing of double-glass solar panels since 2009. its production bases are located in Zhejiang, Jiangsu, and Shandong. The company has an independent technology R&D team, a national key laboratory, and a fully automatic productionline for intelligent manufacturing. The product and quality control standards have reached the industry-leading level.

The company's products have obtained: TuV certification, UL certification, Australian CEC accreditation, Brazil INMETRO certification, the first batch of "Double Glass Leader Certification" in China, ISO9001 international quality system certification, 3C certification and many other authoritative certifications.

Raytech adheres to the business philosophy of "centering on user value and oriented to win-win cooperation", adheres to the principle of "pragmatic, inclusive, refined, and innovative", and carries the vision of "let the golden sunshine restore its natural color" to serve and contribute to the promotion of diversified applications of clean energy.

### PRODUCT FEATURES



#### Optimized Power Gain

- Half-Cell Cutting Technology to Lower the Output Power Losses Brought by Shading;
- Integrates Multiple-Busbar(MBB) Tech, Higher Power Output



#### Working Condition Compatibility & Safety

- High Resistance to High Temp., High Humidity, Sand, Acid and Alkali Environment;
- 5400Pa Snow Loading, 2400Pa Wind Loading;



#### Higher-Than-Ever ROI

- 1500V System Voltage, Lower BOS Cost;
- Annual Degradation < 0.55%, 25-year Linear Performance Warranty;

### CERTIFICATION



### CONTACT US

Ningbo Raytech New Energy Materials Co.,Ltd  
Address: Huyong Industry Park, 18 Qiyuan Road, Hangzhou  
Bay New District, Ningbo City, Zhejiang, China  
Tel: +86-400-155-9909  
Website: [www.raytech-energy.com](http://www.raytech-energy.com)  
Email: [sales@raytm.cn](mailto:sales@raytm.cn)

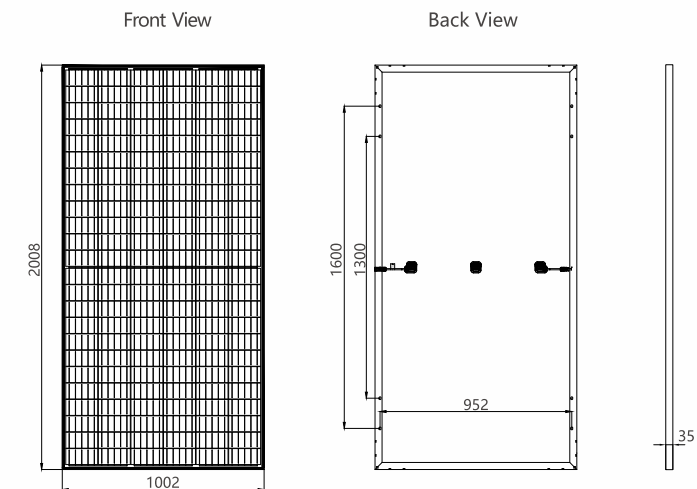


Wechat Public Account

# Single-Glass Mono Modules : 390-405W

ENGINEERING DRAWING

MECHANICAL SPECIFICATIONS



Cell Type	Mono crystalline
Solar Cells	144(6*24)
Module Dimension [mm]	2008*1002*35mm
Weight [Kg]	23.0
Front Glass [mm]	3.2 Low iron tempered coated glass
Interlayer	EVA
Backsheet	Composite sheet
Junction Box	Ip67 Rated, by-pass diodes
Connector	Multi-Contact MC4(or equivalent)
Transmittance[%]	0
Maximum Load Capacity [Pa]	2400(wind load)/5400(snow load)

			SM72H(S)-390	SM72H(S)-395	SM72H(S)-400	SM72H(S)-405
STC: Air Mass AM1.5, Ir-radiance 1000W/m <sup>2</sup> Cell temperature 25°C	Maximum Power at STC [Pmax]	[W]	390	395	400	405
	Open Circuit Voltage [Voc]	[V]	48.82	48.95	49.18	49.42
	Short Circuit Current [Isc]	[A]	10.10	10.20	10.27	10.34
	Voltage at Maximum Power point[Vm]	[V]	40.44	40.74	41.00	41.27
	Current at Maximum Power point[Im]	[A]	9.64	9.69	9.75	9.81
	Power Tolerance	[%]	0~+3%			
	Module Efficiency	[%]	19.2%	19.4%	19.7%	19.9%
NMOT: Air Mass AM1.5, Ir-radiance 800W/m <sup>2</sup> Ambient temperature 20°C, wind speed 1m/s.	Maximum Power at NMOT [Pmax]	[W]	289	292	296	300
	Open Circuit Voltage [Voc]	[V]	45.1	45.3	45.5	45.7
	Short Circuit Current [Isc]	[A]	8.14	8.23	8.28	8.34
	Voltage at Maximum Power point[Vm]	[V]	36.8	37.0	37.3	37.5
	Current at Maximum Power point[Im]	[A]	7.85	7.89	7.94	7.99
	Power Tolerance	[%]	0~+3%			

WORKING CONDITIONS			TEMPERATURE COEFFICIENTS		
Maximum System Voltage(With S)	[V]	1000 DC(IEC)	Temperature Coefficient of Pmax	[%/°C]	-0.42
Maximum System Voltage(Without S)	[V]	1500 DC(IEC)	Temperature Coefficient of Voc	[%/°C]	-0.33
Operating Temperature	[°C]	-40~+85	Temperature Coefficient of Isc	[%/°C]	0.04
Nominal Operating Cell Temperature	[°C]	45±3	PACKAGE CONFIGURATION		
Maximum rated current	[A]	20	Per box 30 pieces	40" HQ 660 pieces	

