

RAYTECH SINGLE-GLASS MODULE

72LAYOUT

MONOCRYSTALLINE MODULES

430-455W **POWER OUTPUT**

20.9% **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 Zhejjang, 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

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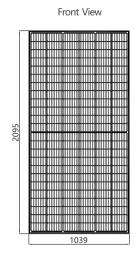


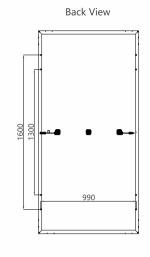
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Single-Glass Mono Modules : 430-455W

ENGINEERING DRAWING

MECHANICAL SPECIFICATIONS





Cell Type	Mono crystalline
Solar Cells	144(6*24)
Module Dimension [mm]	2095*1039*35mm
Weight [Kg]	24.0
Front Glass [mm]	3.2 Low iron tempered coated glass
Interlayer	EVA
Backsheet	Composite sheet
Junction Box	lp67 Rated, by-pass diodes
Connector	Multi-Contact MC4(or equivalent)
Transmittance[%]	0
Maximum Load Capacity [Pa]	2400(wind load)/5400(snow load)

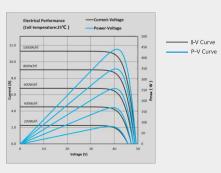
			SMJ72H(S)-430	SMJ72H(S)-435	SMJ72H(S)-440	SMJ72H(S)-445	SMJ72H(S)-450	SMJ72H(S)-455
STC: Air Mass AM1.5,Ir- radiance 1000W/m ² Cell temperature 25°C	Maximum Power at STC [Pmax]	[W]	430	435	440	445	450	455
	Open Circuit Voltage [Voc]	[V]	48.79	49.01	49.29	49.54	49.75	49.95
	Short Circuit Current [Isc]	[A]	11.30	11.34	11.38	11.42	11.46	11.52
	Voltage at Maximum Power point[Vm]	[V]	40.47	40.76	41.06	41.33	41.55	41.76
	Current at Maximum Power point[Im]	[A]	10.63	10.67	10.72	10.77	10.83	10.90
	Power Tolerance	[%]	0~+3%					
	Module Efficiency	[%]	19.8%	20.0%	20.2%	20.4%	20.7%	20.9%
NMOT: Air Mass AM1.5, Irradiance 800W/m² Ambient temperature 20°C, wind speed 1m/s.	Maximum Power at NMOT [Pmax]	[W]	321	325	329	333	336	340
	Open Circuit Voltage [Voc]	[V]	45.6	45.8	46.0	46.3	46.5	46.7
	Short Circuit Current [Isc]	[A]	9.11	9.14	9.18	9.21	9.24	9.29
	Voltage at Maximum Power point[Vm]	[V]	37.2	37.4	37.7	37.9	38.1	38.3
	Current at Maximum Power point[Im]	[A]	8.65	8.69	8.73	8.77	8.82	8.87
	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	[℃]	-40~+85			
Nominal Operating Cell Temperature	[℃]	45±3			
Maximum rated current	[A]	20			

Temperature Coefficient of Pmax	[%/℃]	-0.42				
Temperature Coefficient of Voc	[%/℃]	-0.33				
Temperature Coefficient of Isc	[%/℃]	0.04				
PACKAGE CONFIGURATION						
Per box 30 pieces	4	40" HO 660 pieces				

TEMPERATURE COEFFICIENTS

ELECTRICAL CURVES



LINEAR PERFORMANCE WARRANTY

