

RAYTECH DOUBLE-GLASS BIFACIAL MODULE

45% TRANSMITTANCE
N TOP CON/MONO/BIFACIAL

240-255W
POWER OUTPUT

13.9%
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

- Use N-type cells, no light-induced degradation (LID), increase power generation;
- Excellent low-light response, higher power generation under low-light conditions
- Better temperature coefficient, higher power output under working conditions
- Higher bifaciality, the additional power generation of modules is up to 30% higher than that of conventional modules



Working Condition Compatibility & Safety

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



Unique Layout design to match the adhesive installation

- Unique design can meet the sunroom's requirements with excellent light transmittance and waterproof.

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
Email: sales@raytm.cn



Scan the code to browse our website

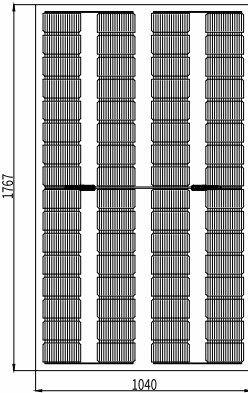
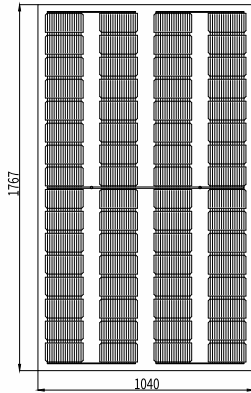
45%transmittance Mono Modules : 240-255W

ENGINEERING DRAWING

MECHANICAL SPECIFICATIONS

Front View

Back View



Cell Type	Ntype mono cells
Solar Cells	4*18
Module Dimension [mm]	1767*1040*6mm
Weight [Kg]	25.0
Front Glass [mm]	2.5 Semi tempered coated glass
Interlayer	EVA/POE/PVB
Back Glass [mm]	2.5 Semi tempered glass
Junction Box	Ip68 Rated, 2 by-pass diodes
Connector	Multi-Contact MC4(or equivalent)
Frame	No Frame
Maximum Load Capacity [Pa]	2400(wind load)/5400(snow load)

ELECTRICAL CHARACTERISTICS

Product model		BNDMTN32H-240		BNDMTN32H-245		BNDMTN32H-250		BNDMTN32H-255	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power at STC [Pmax]	[W]	240	182	245	185	250	189	255	193
Open Circuit Voltage [Voc]	[V]	22.32	21.12	22.54	21.32	22.76	21.53	22.97	21.73
Short Circuit Current [Isc]	[A]	13.76	11.11	13.89	11.22	14.03	11.33	14.17	11.44
Voltage at Maximum Power point[V _m]	[V]	18.28	17.15	18.48	17.34	18.68	17.53	18.90	17.73
Current at Maximum Power point[I _m]	[A]	13.13	10.59	13.25	10.69	13.38	10.79	13.49	10.88
Power Tolerance	[%]	13.1%		13.3%		13.6%		13.9%	
Module Efficiency	[W]	0~+5							

STC: Air Mass AM1.5, Ir-radiance 1000W/m Cell temperature 25°C. NMOT: Air Mass AM1.5, Ir-radiance 800W/m Ambient temperature 20°C, wind speed 1m/s. Power Tolerance : ±3%

COMPREHENSIVE ELECTRIC PARAMETERS (TAKING 240W AS AN EXAMPLE)

Back Gain	Pmax(W)	Voc(V)	Isc(A)	Vmp(V)	Imp(A)
5%	263	22.76	14.73	18.68	14.05
10%	275	22.76	15.43	18.68	14.72
15%	288	23.55	16.13	19.55	14.71
20%	300	23.55	16.84	19.55	15.35
25%	313	23.55	17.54	19.55	15.98

Bifaciality= 80±5%

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]	42±3
Maximum rated current	[A]	20

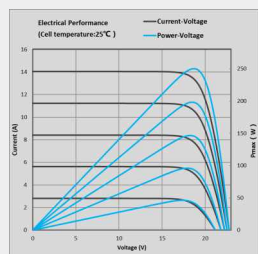
TEMPERATURE COEFFICIENTS

Temperature Coefficient of Pmax	[%/°C]	-0.30
Temperature Coefficient of Voc	[%/°C]	-0.25
Temperature Coefficient of Isc	[%/°C]	0.04

PACKAGE CONFIGURATION

Per box 38 pieces	40" HQ 912 pieces
-------------------	-------------------

ELECTRICAL CURVES



— I-V Curve
— P-V Curve

LINEAR PERFORMANCE WARRANTY

NO MORE THAN 0.45% ANNUAL DEGRADATION OVER 30 YEARS

