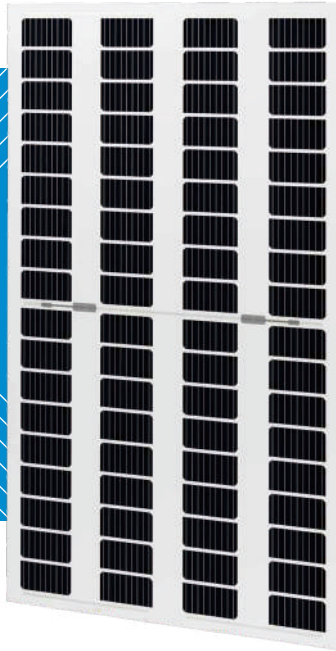


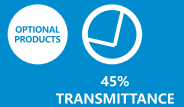
RAYTECH DOUBLE-GLASS TRANSMITTANCE MODULE



45% TRANSMITTANCE
MONO MODULES

215-230W
POWER OUTPUT

12.5%
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. The company's current annual production capacity is 1.2GW and 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

- High Resistance to PID;
- Low Risk of Micro-cracks; Zero Snail Trails Probability;



Unique Layout design to match the adhesive installation

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



Higher-Than-Ever ROI

- 1500V System Voltage, Lower BOS Cost;
- Annual Degradation < 0.45%, 30-year Linear Performance Warranty;
- Frameless Design, Easier Surface Cleaning, Lower O&M Cost;



Working Condition Compatibility & Safety

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

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
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Scan the code to browse our website

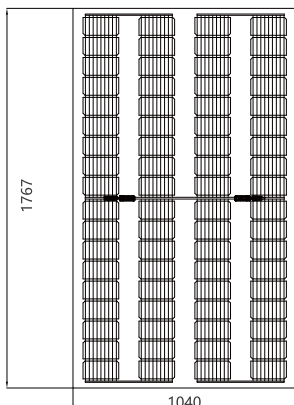
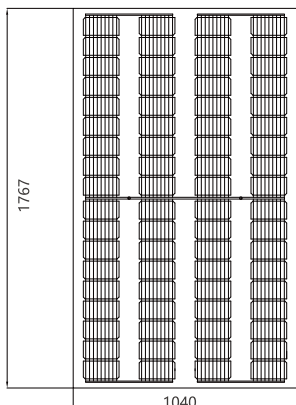
45%transmittance Mono Modules : 215-230W

ENGINEERING DRAWING

MECHANICAL SPECIFICATIONS

Front View

Back View



Cell Type	Mono crystalline
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	BPDMJ36H(S)-215		BPDMJ36H(S)-220		BPDMJ36(S)-225		BPDMJ36H(S)-230		
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Maximum Power at STC [Pmax]	[W]	215	161	220	164	225	168	230	172
Open Circuit Voltage [Voc]	[V]	24.63	23.0	24.95	23.3	25.13	23.5	25.27	23.6
Short Circuit Current [Isc]	[A]	11.62	9.37	11.64	9.39	11.66	9.40	11.68	9.42
Voltage at Maximum Power point[Vm]	[V]	20.31	18.6	20.62	18.9	20.91	19.2	21.15	19.4
Current at Maximum Power point[Im]	[A]	10.59	8.62	10.67	8.69	10.76	8.76	10.87	8.86
Power Tolerance	[%]	0~+5							
Module Efficiency	[W]	11.6		11.9		12.2		12.5	

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%

DOUBLE SIDES POWER OUTPUT (BACK GAIN)

Gain	Parameter	Unit	215W	220W	225W	230W
5%	Pmax (W)	[W]	226	231	236	242
10%	Pmax (W)	[W]	237	242	248	253
15%	Pmax (W)	[W]	247	253	259	265
20%	Pmax (W)	[W]	258	264	270	276

Bifaciality=75±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]	45±3
Maximum rated current	[A]	20

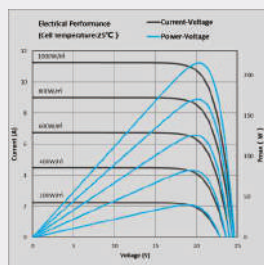
TEMPERATURE COEFFICIENTS

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 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

