

# RAY TECH

22.5% MAX. EFFICIENCY

RAYTECH DOUBLE-GLASS BIFACIAL MODULE

560-580W 72 LAYOUT



## 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;
- Frames with Light Double Glass to meet customer's Requirements of Lightness and Safety

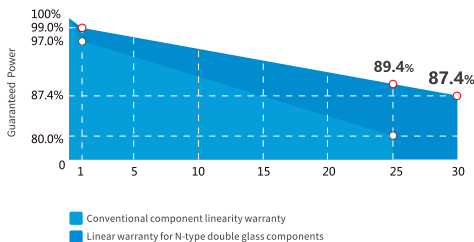


### Higher-Than-Ever ROI

- 1500V System Voltage, Lower BOS Cost;
- Initial Degradation less than 1%, annual degradation no more than 0.4%, 30 years Linear performance warranty, higher power output

## LINEAR PERFORMANCE WARRANTY

NO MORE THAN 0.40% ANNUAL DEGRADATION OVER 30 YEARS



## CERTIFICATION



## 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 has an independent technology R&D team, a national key laboratory, and a fully automatic production line for intelligent manufacturing. The product and quality control standards have reached the industry-leading level.



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## ELECTRICAL CHARACTERISTICS

STC: Air Mass AM1.5, Ir-radiance 1000W/m<sup>2</sup>, Cell temperature 25°C  
 NMOT: Air Mass AM1.5, Ir-radiance 800W/m<sup>2</sup>, Ambient temperature 20°C, wind speed 1m/s, Power Tolerance: ±3%

Test condition		BNDMTN72H-560		BNDMTN72H-565		BNDMTN72H-570		BNDMTN72H-575		BNDMTN72H-580	
		STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power [Pmax]	[W]	560	424	565	427	570	431	575	435	580	439
Open Circuit Voltage [Voc]	[V]	50.67	47.93	50.87	48.12	51.07	48.31	51.27	48.50	51.47	48.69
Short Circuit Current [Isc]	[A]	14.13	11.41	14.19	11.46	14.25	11.50	14.31	11.55	14.37	11.60
Voltage at Maximum Power point [V <sub>m</sub> ]	[V]	41.95	39.35	42.14	39.53	42.29	39.67	42.44	39.81	42.59	39.95
Current at Maximum Power point [I <sub>m</sub> ]	[A]	13.35	10.76	13.41	10.81	13.48	10.87	13.55	10.92	13.62	10.98
Power Tolerance	[%]	21.7		21.9		22.1		22.3		22.5	
Module Efficiency	[W]	0~+5									

## DOUBLE SIDES POWER OUTPUT ( BACK GAIN)

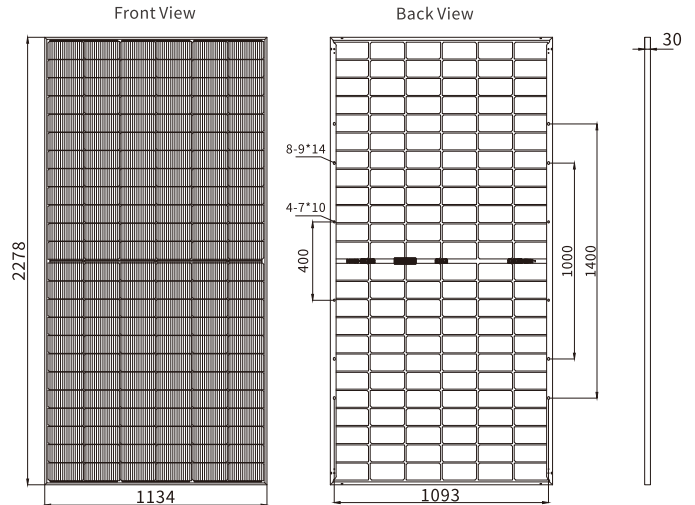
Bifaciality=80±5%

Back Gain	Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A
5%	589	50.67	14.84	42.05	14.02
10%	618	50.67	15.54	42.05	14.69
15%	644	51.67	16.25	41.95	15.35
20%	672	51.67	16.96	41.95	16.02
25%	700	51.67	17.66	41.95	16.69

## ENGINEERING DRAWING

Cell Type	Mono crystalline
Solar Cells	144(6*24)
Module Dimension [mm]	2278*1134*30
Weight [Kg]	32.5
Front Glass [mm]	2.0 Semi tempered coated glass
Interlayer	EVA/POE/PVB
Back Glass [mm]	2.0 Semi tempered glass
Junction Box	Ip68 Rated, 3 by-pass diodes
Connector	Multi-Contact MC4 (or equivalent)
Frame	30mm Aluminum Frame
Maximum Load Capacity [Pa]	2400 (wind load) / 5400 (snow load)

## MECHANICAL SPECIFICATIONS



## SCOPE OF WORK

Maximum System Voltage [V]	1000 / 1500 DC (IEC)
Operating Temperature [°C]	-40~+85
Nominal Operating Cell Temperature [°C]	45±3
Maximum rated current [A]	30

## TEMPERATURE COEFFICIENTS

Temperature Coefficient of Pmax [%/°C]	-0.30
Temperature Coefficient of Voc [%/°C]	-0.25
Temperature Coefficient of Isc [%/°C]	0.046

## PACKAGE CONFIGURATION

Per box 35 pieces      40"HQ700 pieces

## ELECTRICAL CURVES

