

RAYTECH DOUBLE-GLASS MODULE

ALL BLACK MONO SHINGLED SOLAR MODULE

130-140W
POWER OUTPUT

19.4%
MAX. EFFICIENCY

OPTIONAL
PRODUCTS



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

- All black design, satisfying visual effect.



Working Condition Compatibility & Safety

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



Higher-Than-Ever ROI

- 1500V System Voltage, Lower BOS Cost;
- Shingled solar cells achieved higher power generation efficiency

CERTIFICATION



CONTACT US

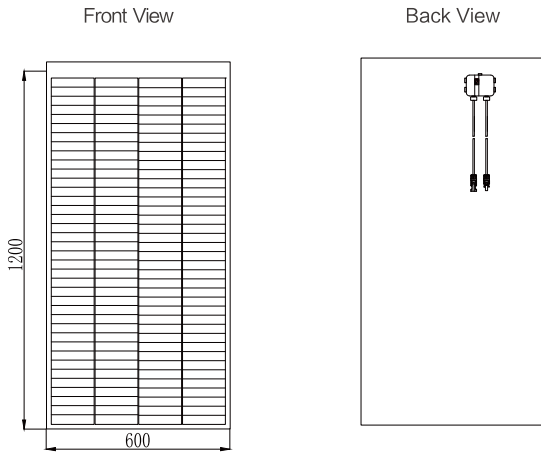
Ningbo Raytech New Energy Materials Co.,Ltd
Address: Huyong Industry Park, 18 Qiyuan Road, Hangzhou
Bay New District, Ningbo City, Zhejiang, China
Tel: +86-400-155-9909
Website: www.raytech-energy.com
Email: sales@raytm.cn



Scan the code to browse
our website

BLACK Mono Module: 130-140W

ENGINEERING DRAWING



MECHANICAL SPECIFICATIONS

Cell Type	Mono crystalline
Solar Cells	152 (38*4)
Module Dimension [mm]	1200*600*7.4
Weight [Kg]	12.6
Front Glass [mm]	3.2 Semi tempered coated glass
Interlayer	EVA/POE/PVB
Back Glass [mm]	3.2 Semi tempered glass
Junction Box	Ip67 Rated, 1 by-pass diodes
Connector	Multi-Contact MC4(or equivalent)
Frame	No Frame
Maximum Load Capacity [Pa]	2400(wind load)/2400(snow load)

ELECTRICAL CHARACTERISTICS

			DM152/5(S)-130	DM152/5(S) 135	DM152/5(S) 140
STC: Air Mass AM1.5, Ir-radiance 1000W/m ² Cell temperature 25°C	Maximum Power at STC [Pmax]	[W]	130	135	140
	Open Circuit Voltage [Voc]	[V]	51.10	51.61	52.11
	Short Circuit Current [Isc]	[A]	3.26	3.31	3.36
	Voltage at Maximum Power point[Vm]	[V]	41.94	42.75	43.38
	Current at Maximum Power point[Im]	[A]	3.10	3.16	3.23
	Power Tolerance	[%]	0~+3%		
	Module Efficiency	[%]	18.1%	18.8%	19.4%
NMOT: Air Mass AM1.5, Ir-radiance 800W/m ² Ambient temperature 20°C, wind speed 1m/s.	Maximum Power at NMOT [Pmax]	[W]	98	102	106
	Open Circuit Voltage [Voc]	[V]	48.34	48.82	49.30
	Short Circuit Current [Isc]	[A]	2.63	2.67	2.71
	Voltage at Maximum Power point[Vm]	[V]	39.34	40.10	40.69
	Current at Maximum Power point[Im]	[A]	2.50	2.55	2.60
	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	[°C]	-40~+85
Nominal Operating Cell Temperature	[°C]	45±2
Maximum rated current	[A]	20

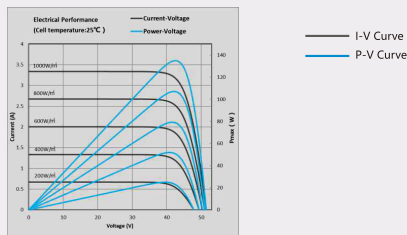
TEMPERATURE COEFFICIENTS

Temperature Coefficient of Pmax	[%/°C]	-0.36
Temperature Coefficient of Voc	[%/°C]	-0.29
Temperature Coefficient of Isc	[%/°C]	0.05

PACKAGE CONFIGURATION

Per box 60/30 pieces	40" HQ 1620 pieces
----------------------	--------------------

ELECTRICAL CURVES



LINEAR PERFORMANCE WARRANTY

