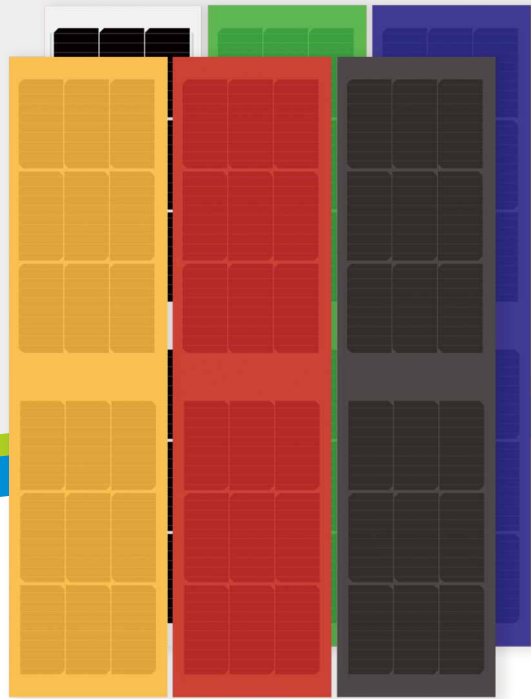


# RAY TECH

15.5% MAX. EFFICIENCY

RAYTECH  
COLORFUL BIPV SERIES

30 - 55W BIPV



OPTIONAL PRODUCTS



TRANSMITTANCE



COLOR CUSTOMIZED

## 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



### Higher-Than-Ever ROI

- 1500V System Voltage, Lower BOS Cost;
- Annual Degradation < 0.45%, 30-year Linear Performance Warranty;



### Architectural aesthetic, customized design

- The color and size can be customized to meet the architectural aesthetic design at maximum extent;
- Green building materials meeting the safety requirements of the building

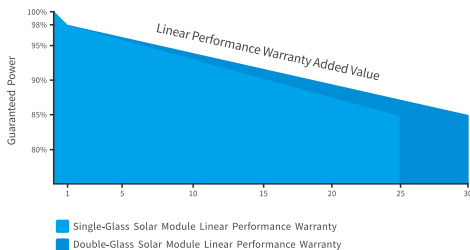


### Working Condition Compatibility & Safety

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

## LINEAR PERFORMANCE WARRANTY

NO MORE THAN 0.45% 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.



📍 No.18, Qiyuan Road Hangzhou Bay New Area, Ningbo, Zhejiang, China

🌐 [www.raytech-energy.com](http://www.raytech-energy.com) ✉ [sales@raytm.cn](mailto:sales@raytm.cn)

☎ +86-400-155-9909

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%  
Output Power changes with color changes

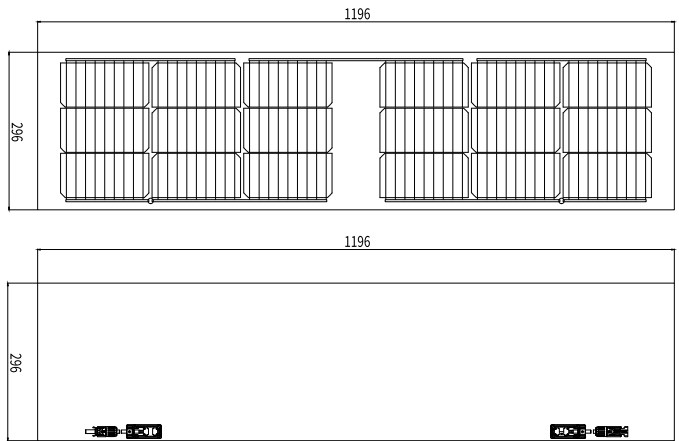
## ELECTRICAL CHARACTERISTICS

			BPDMJ9H(S)-30	BPDMJ9H(S)-35	BPDMJ9H(S)-40	BPDMJ9H(S)-45	BPDMJ9H(S)-50	BPDMJ9H(S)-55
STC	Maximum Power [Pmax]	[W]	30	35	40	45	50	55
	Open Circuit Voltage [Voc]	[V]	12.13	12.16	12.19	12.22	12.25	12.33
	Short Circuit Current [Isc]	[A]	3.16	3.67	4.18	4.68	5.19	5.65
	Voltage at Maximum Power point[Vm]	[V]	10.01	10.05	10.08	10.11	10.14	10.21
	Current at Maximum Power point[Im]	[A]	3.00	3.48	3.97	4.45	4.93	5.39
	Module Efficiency	[%]	8.5%	9.9%	11.3%	12.7%	14.1%	15.5%
NMOT	Maximum Power at NMOT [Pmax]	[W]	22	26	30	34	37	41
	Open Circuit Voltage [Voc]	[V]	11.45	11.48	11.51	11.54	11.56	11.64
	Short Circuit Current [Isc]	[A]	2.55	2.96	3.37	3.78	4.19	4.56
	Voltage at Maximum Power point[Vm]	[V]	9.25	9.29	9.31	9.34	9.37	9.43
	Current at Maximum Power point[Im]	[A]	2.42	2.81	3.21	3.60	3.98	4.35

## ENGINEERING DRAWING

Cell Type	Mono crystalline
Solar Cells	18(6*3)
Module Dimension[mm]	1196*296*7.4
Weight[Kg]	6.2
Front Glass[mm]	3.2 Tempered Glass
Interlayer	EVA/POE/PVB
Back Glass[mm]	3.2 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)

## 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]	20

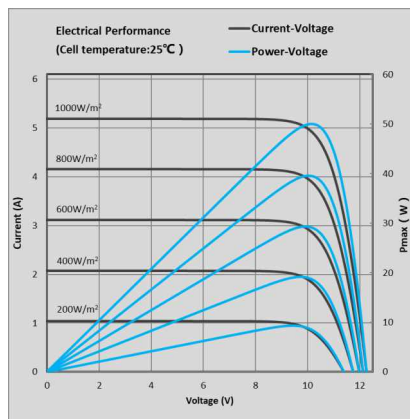
## TEMPERATURE COEFFICIENTS

Temperature Coefficient of Pmax [%/°C]	-0.35
Temperature Coefficient of Voc [%/°C]	-0.28
Temperature Coefficient of Isc [%/°C]	0.046

## PACKAGE CONFIGURATION

Per box 70 pieces	40"HQ2520 pieces
-------------------	------------------

## ELECTRICAL CURVES



— I-V Curve  
— P-V Curve