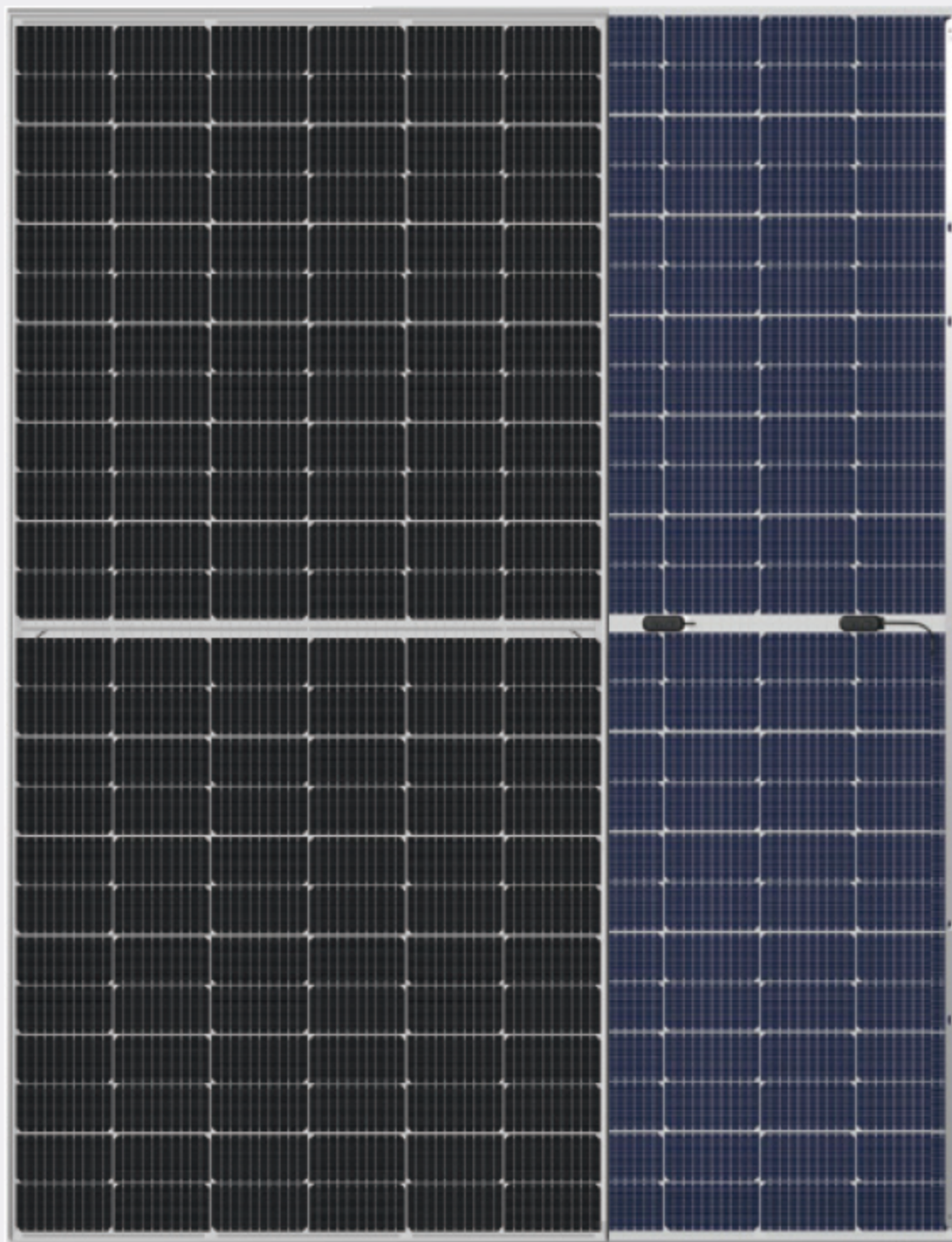


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## RS7I-450~455M-BD

RS7I-450~455M-BD is a robust solar module with 144 Bifacial 166mm cells . These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee Resun Solar's modules meet the highest quality standards possible

**144 Cells**

Bifacial-monocrystalline

**450~455W**

Power output

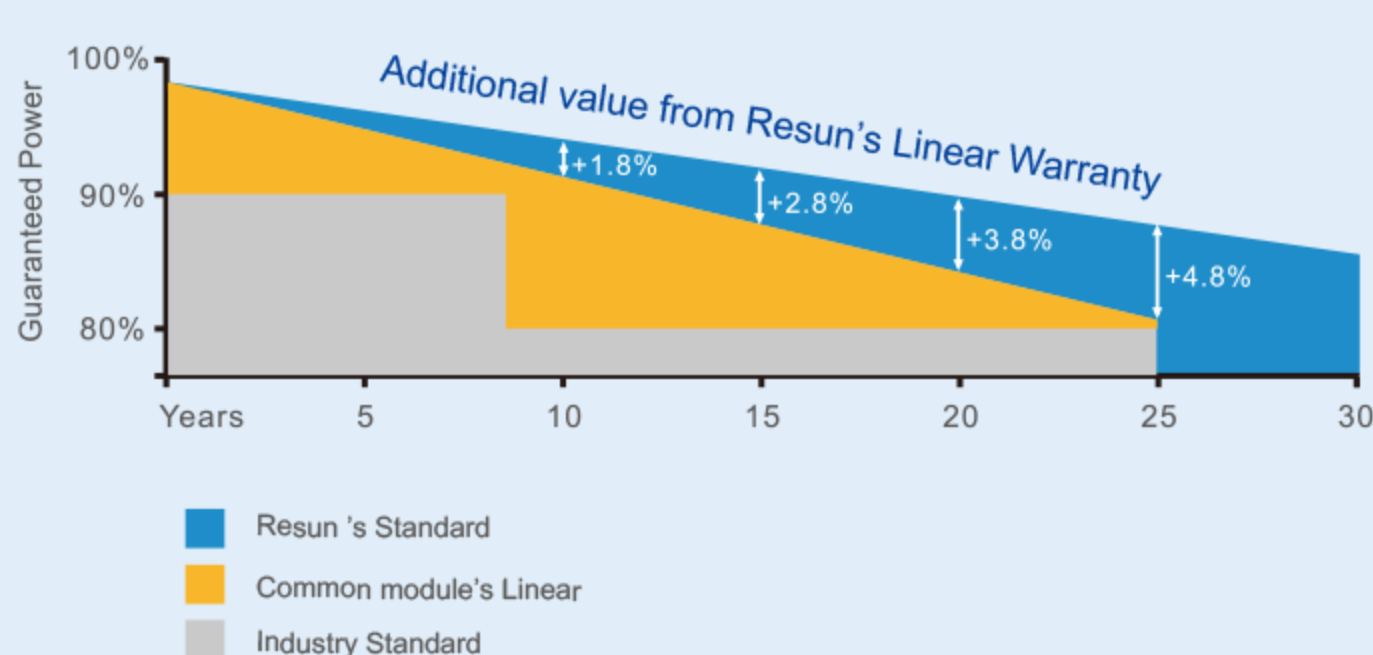
**20.93%**

The Highest Efficiency

**0~ +5W**

Tolerance

**0.5% Annual Degradation  
over 30 years**



**LINEAR PERFORMANCE WARRANTY**  
12 year Product Warranty / 30 year Linear Power Warranty



High module conversion efficiency (up to 20.93%), through superior manufacturing technology



Guaranteed 0~+5W positive power output tolerance ensures high reliability



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



Excellent performance under low light environments (mornings, evenings and cloudy days)



Suitable for harsh environments, such as coasts, deserts and lakes. Withstand high level of wind loads (2400pa) and snow loads (5400pa)

**Full range of products and certification systems**

ISO 9001 TUV PID-FREE CE IEC61215/61730/61701/62716

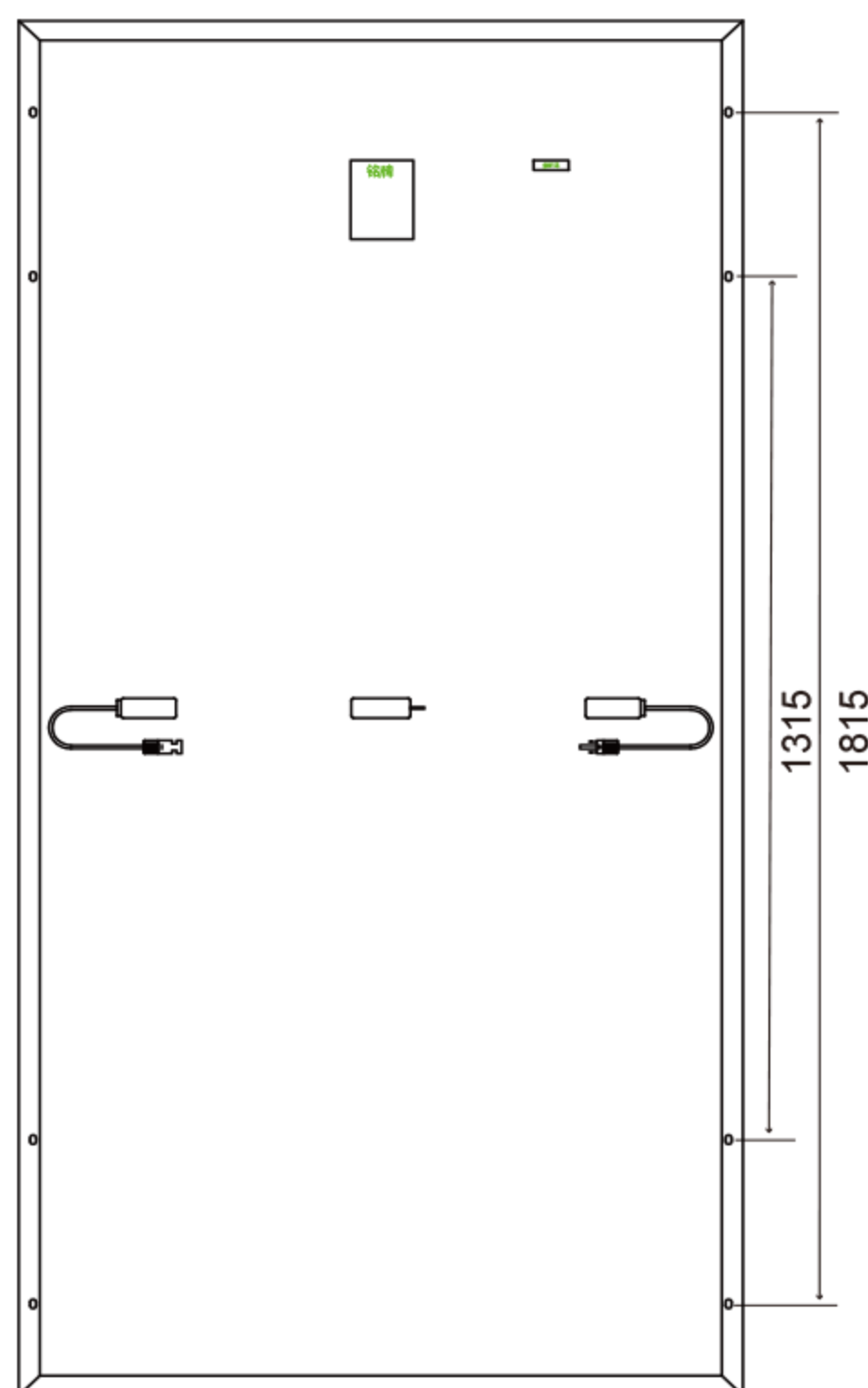
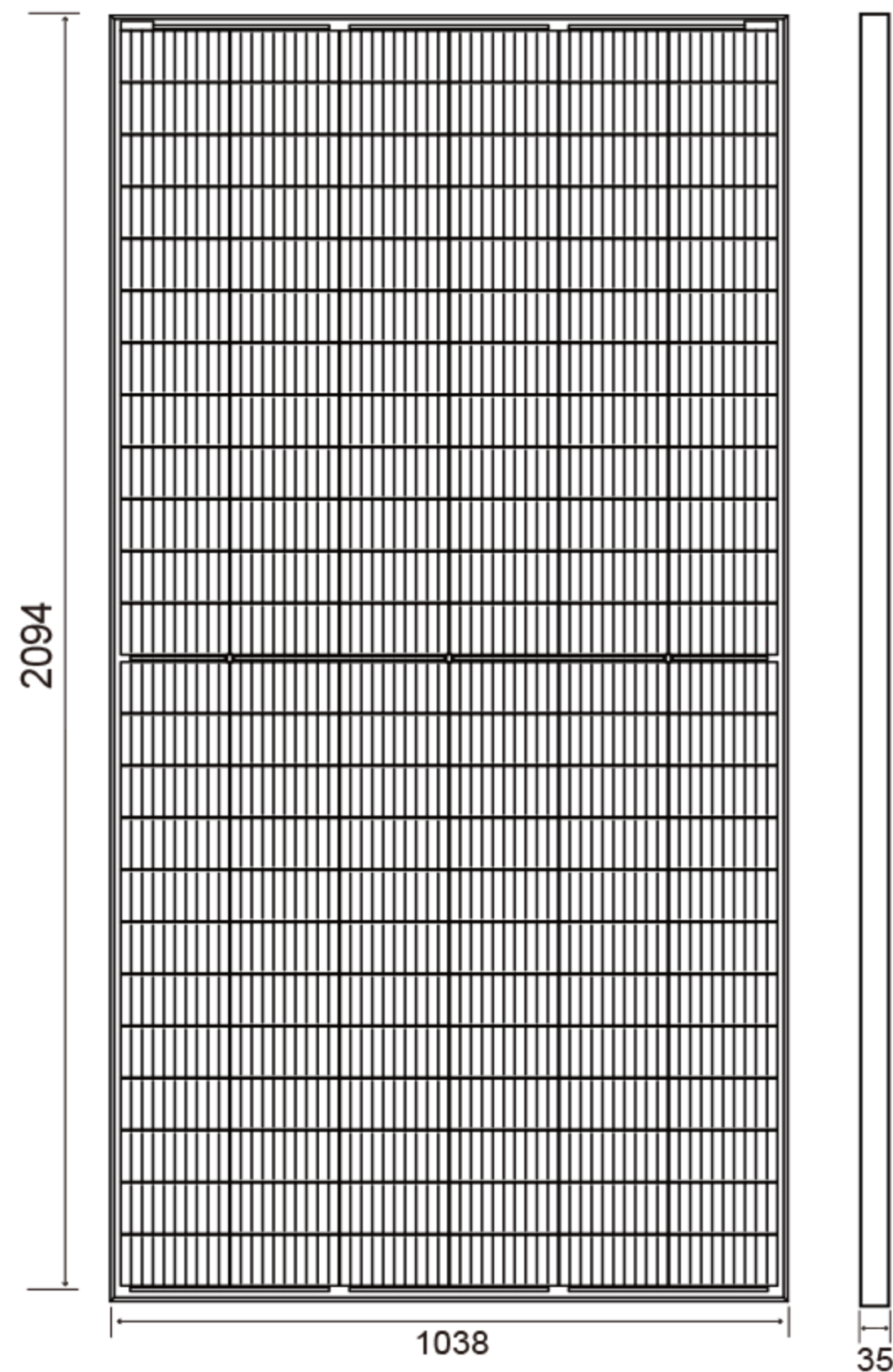


# RS7I-450~455M-BD

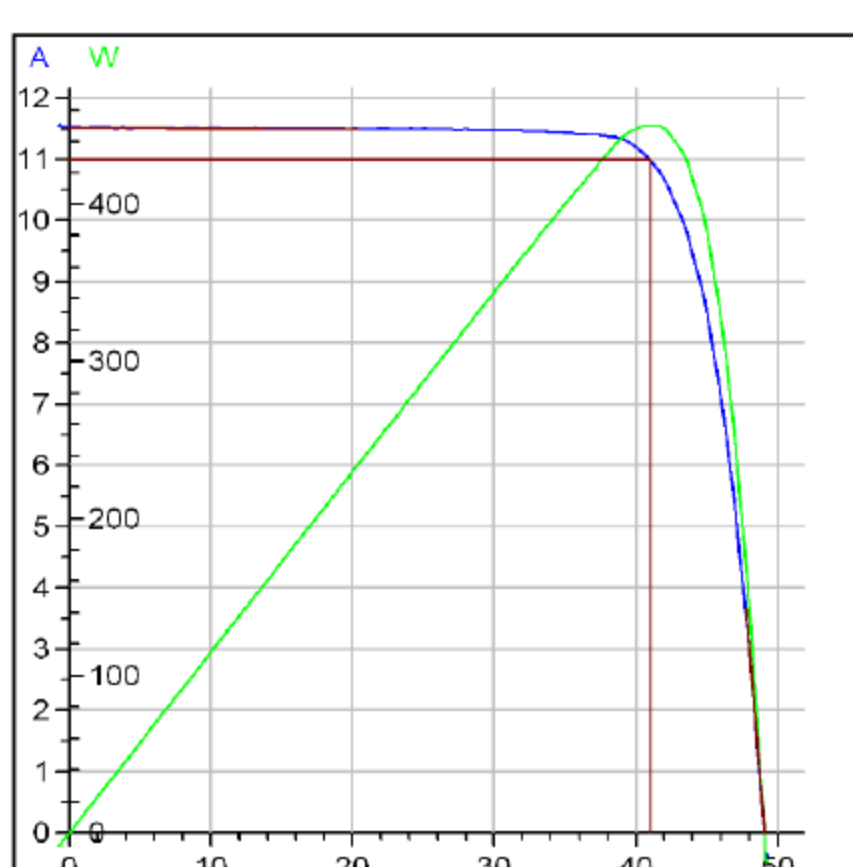
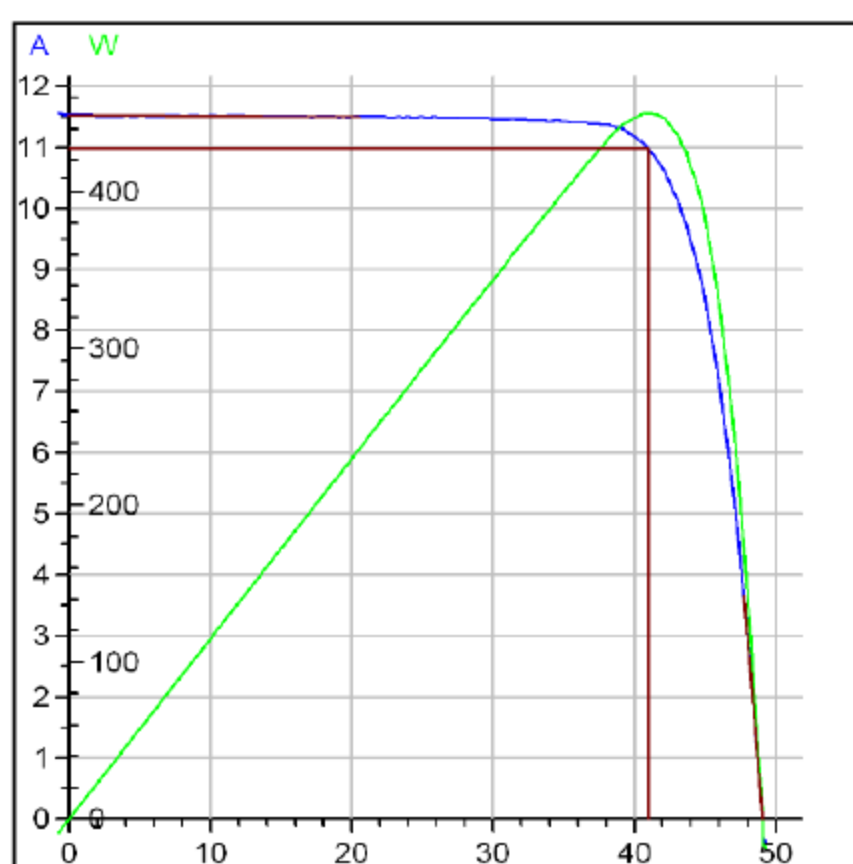


GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



## CHARACTERISTIC CURVE | RS7I-455M-BD



## ELECTRICAL DATA(STC)

Parameter	450W	455W
Rated Power in Watts-Pmax(Wp)	450W	455W
Open Circuit Voltage-Voc(V)	49.3V	49.5V
Short Circuit Current-Isc(A)	11.6A	11.67A
Maximum Power Voltage-Vmp(V)	41.5V	41.7V
Maximum Power Current-Imp(A)	10.85A	10.91A
Module Efficiency (%)	20.70%	20.93%

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Gain (%)	Maximum Power(pmax) Module Efficiency STC (%)	473Wp 21.76%	478Wp 21.99%
5%			
15%		518Wp 23.83%	523Wp 24.06%
25%		563Wp 25.90%	569Wp 26.18%

## ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	336.1W	339.8W
Open Circuit Voltage-Voc (V)	46.2V	46.4V
Short Circuit Current-Isc (A)	9.38A	9.43A
Maximum Power Voltage-Vmp(V)	38.7V	38.9V
Maximum Power Current-Imp(A)	8.68A	8.74A

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

## MECHANICAL DATA

Solar cells	Bifacial Mono-crystalline 166*83mm
Cell configuration	144cells(6*24)
Module dimensions	2094*1038*35mm
Weight	25.5KGS
Front Cover	3.2mm Tempered Glass
J-BOX	IP68
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/pallet

## TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500W(IEC)/1500v(UL)
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

## PACKAGING CONFIGURATION

	40HQ
Number of modules per container	726pcs
Package	31pcs/pallet, 2pcs/cartonbox
Package Weight	22pallets+11carton boxes
Package Number	1064kg/pallet,58kg/carton box
Package Dimension	2130*1125*1190mm/pallet
	2120*1058*70mm/carton box