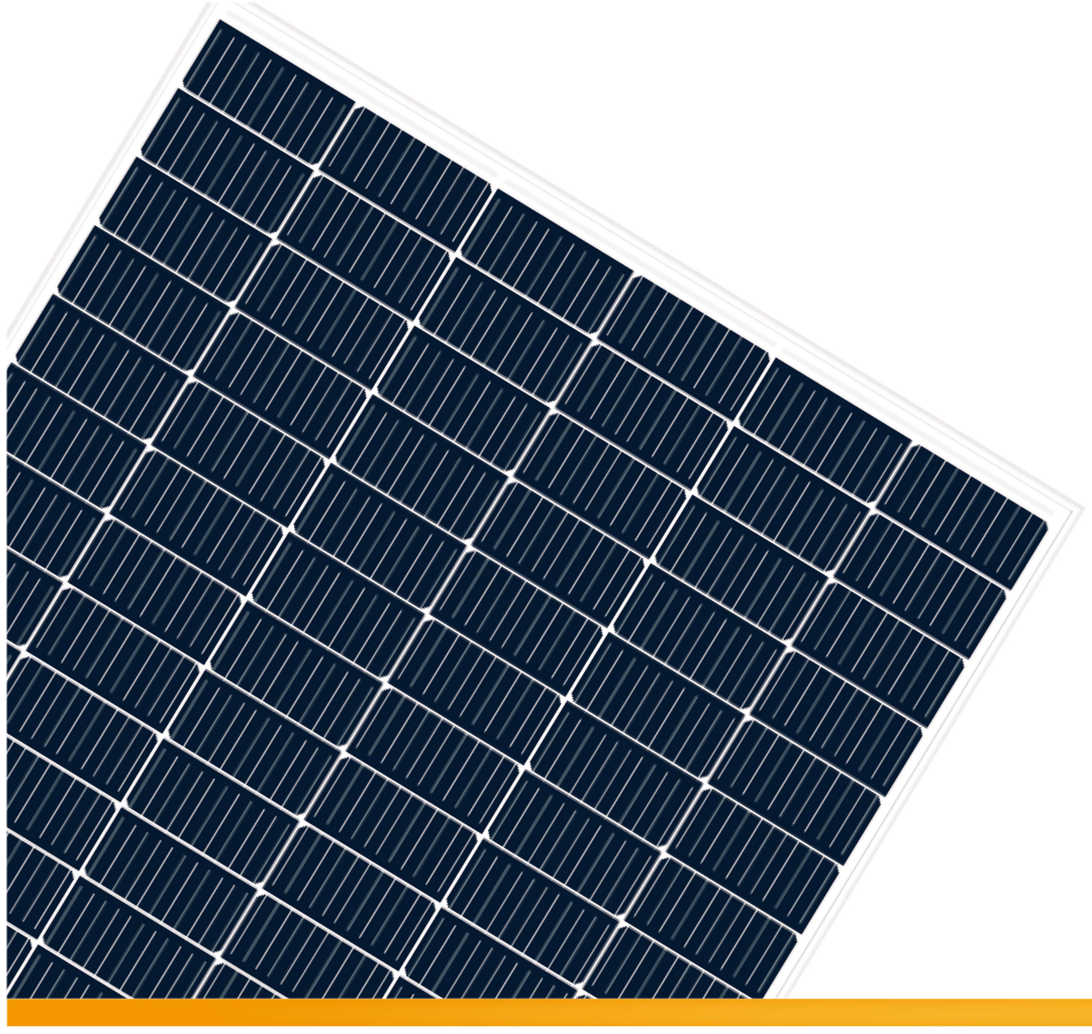
RESUN

RESUN SOLAR ENERGY CO.,LTD.



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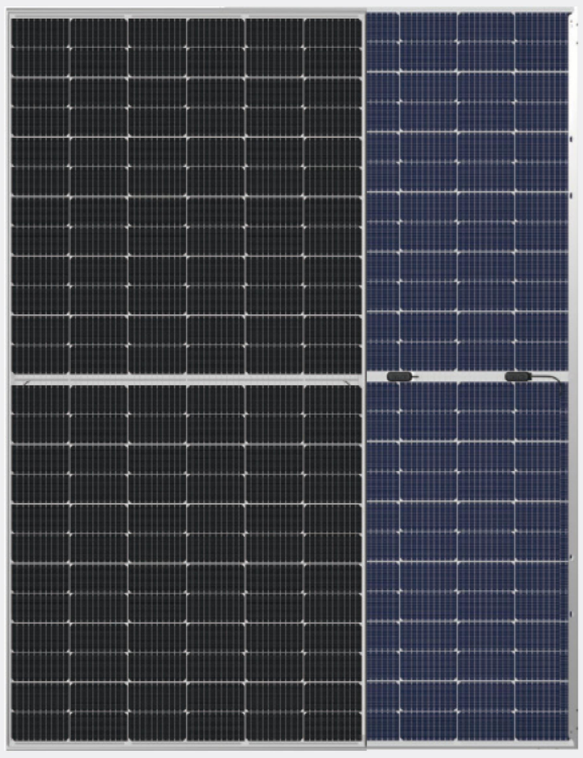


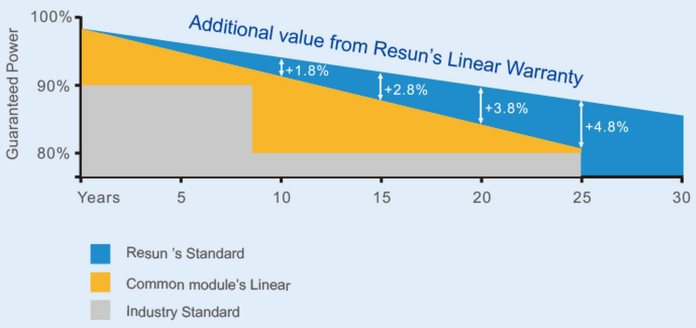
144 Cells
Bifacial-monocrystalline

540-545W
Power output

21.13%
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

RS8I-540-545M-BD

RS8I-540-545M-BD is a robust solar module with 144Bifacial182mm 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

- **High module conversion efficiency (up to 21.13%), 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)**

2400Pa
5400PA

Full range of products and certification systems

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

RS8I-540-545M-BD

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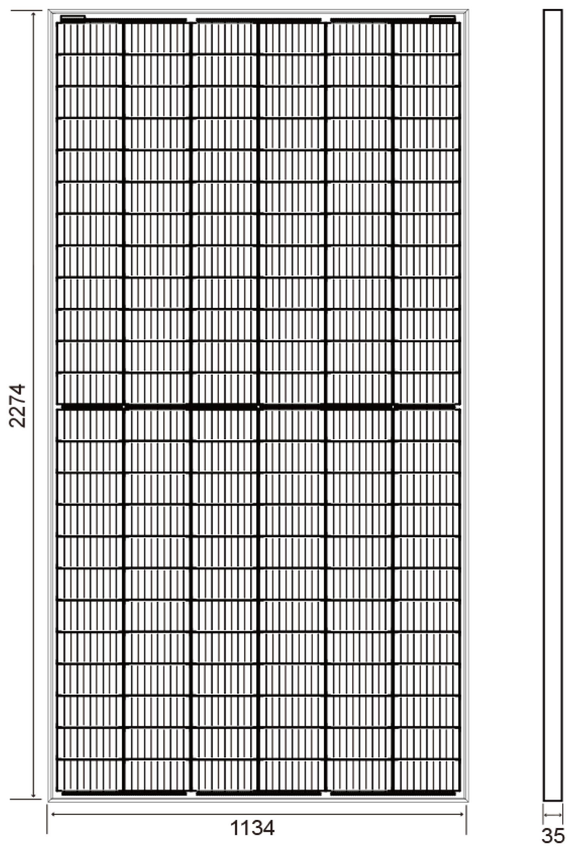
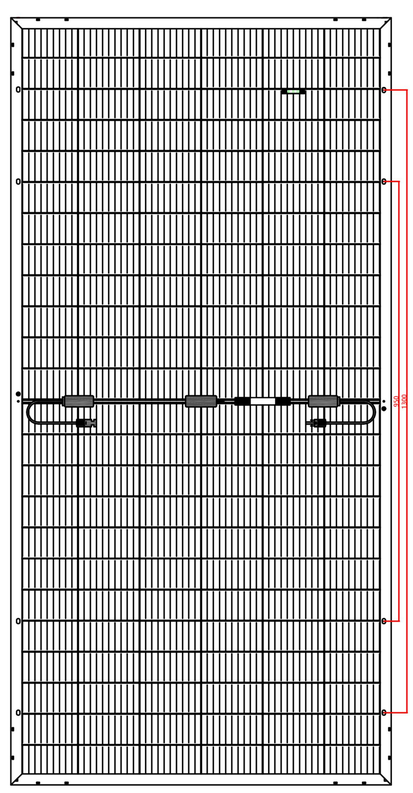
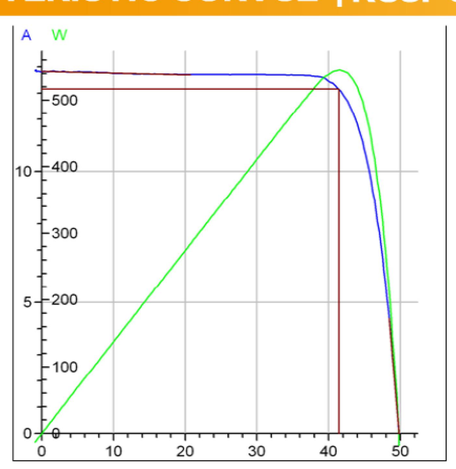
GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

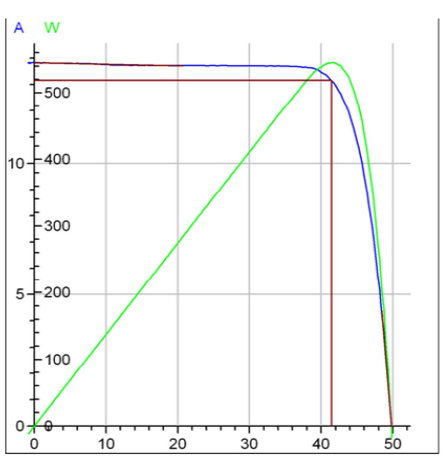
Dimension of PV Modules Unit: mm





CHARACTERISTIC CURVSE | RS8I-545M-BD





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W: www.resunsolar.com E: info@resunsolar.com

ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	540W	545W
Open Circuit Voltage-Voc(V)	49.60V	49.75V
Short Circuit Current-Isc(A)	13.86A	13.93A
Maximum Power Voltage-Vmp(V)	41.64V	41.80V
Maximum Power Current-Imp(A)	12.97A	13.04A
Module Efficiency (%)	20.94%	21.13%

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power(pmax) Module Efficiency STC (%)	567Wp 21.99%	572Wp 22.19%
15%	Maximum Power(pmax) Module Efficiency STC (%)	621Wp 24.08%	623Wp 21.99%
25%	Maximum Power(pmax) Module Efficiency STC (%)	675Wp 26.18%	681Wp 26.42%

ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	408W	412W
Open Circuit Voltage-Voc (V)	46.43V	46.55V
Short Circuit Current-Isc (A)	11.09A	11.13A
Maximum Power Voltage-Vmp(V)	38.99V	39.2V
Maximum Power Current-Imp(A)	10.47A	10.51A

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	Bificial monocrystalline 9/10/11 Bus Bars
Cell configuration	144cells(6*24)
Module dimensions	2274*1134*35mm
Weight	29kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68
Cable	4mm²(IEC)/12AWG(UL),300mm/400mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	31pcs/pallet

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	45℃ ± 2℃
Temperature Coefficient of Voc	−0.32%/℃
Temperature Coefficient of Isc	0.05%/℃
Temperature Coefficient of Pmax	−0.39%/℃
Operational Temperature	−40~+85℃
Maximum System Voltage	1500W(IEC)/1500v(UL)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	620pcs
Package	31pcs/pallet
Package Weight	10pallets
Package Number	1192kg/pallet
Package Dimension	2310*1130*1270mm/pallet