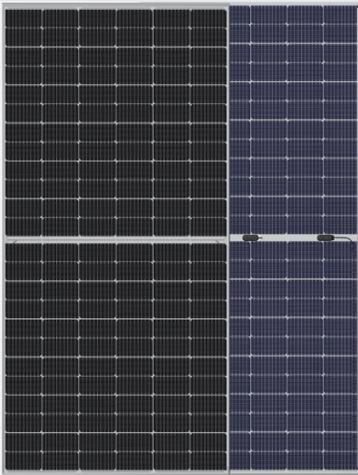


**BIFACIAL MODULE WITH  
DOUBLE GLASS**

WWW.RESUNSOLAR.COM



**144 Cells**

Bifacial-monocrystalline MBB

**565-590W**

Power output

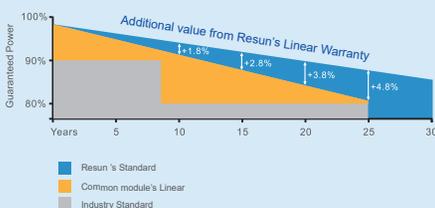
**22.84%**

The Highest Efficiency

**0~+5W**

Tolerance

**0.5% Annual Degradation  
over 30 years**



**LINEAR PERFORMANCE WARRANTY**

**15** Year Product Warranty

**30** Year Linear Power Warranty

## RT8I-M-DG

**RS8I-M-DG** series is produced with high efficiency multi-busbar cells, which can reduce the module internal power loss to improve its conversion efficiency, as well as low the failure risk caused by cracks and broken busbar to enhance the module reliability. Combined with half-cell technology, the module is highly resistant to hot-spot crisis caused by shadow effect.



### High Reliability

Multi-busbar technology can effectively reduce the reliability risk caused by cells cracks and broken busbar.



### Anti-PID Resistance

Prominent anti PID performance reduces the power degradation, leading to higher energy yield and lower LCOE.



### Durability Against Extreme Conditions

Certified to resist high salt mist and ammonia conditions.



### High Efficiency

Multi-busbar technology can reduce the module internal power loss to improve the module conversion efficiency significantly.



### Low-Light Performance

With high transmittance and anti-reflective 3.2mm tempered glass, the module has stronger performance under low light circumstances.



### High Mechanical Strength

Certified to withstand: high wind load(2400Pa) and snow load(5400Pa).

**Full range of products and certification systems**

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

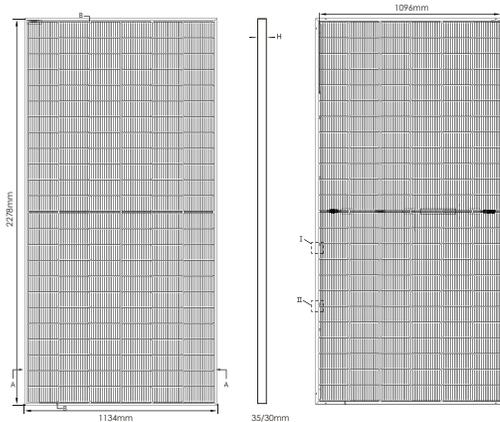


# RS8I-M-DG



GLOBAL PROFESSIONAL PV PRODUCTS INTERGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



## ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	565	570	575	580	585	590
Open Circuit Voltage-Voc(V)	50.20	50.35	50.50	50.65	50.80	50.95
Short Circuit Current-Isc(A)	14.14	14.21	14.28	14.35	14.42	14.49
Maximum Power Voltage-Vmp(V)	42.26	42.42	42.57	42.72	42.87	43.01
Maximum Power Current-Imp(A)	13.37	13.44	13.51	13.58	13.65	13.72
Module Efficiency (%)	21.87%	22.07%	22.26%	22.45%	22.65%	22.84%

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

5%	Maximum Power(pmax)	593	599	604	609	614	620
	Module Efficiency STC(%)	23.0%	23.2%	23.4%	23.6%	23.8%	24.0%
15%	Maximum Power(pmax)	650	656	661	667	673	679
	Module Efficiency STC(%)	25.2%	25.4%	25.6%	25.8%	26.0%	26.3%
25%	Maximum Power(pmax)	706	713	719	725	731	738
	Module Efficiency STC(%)	27.3%	27.6%	27.8%	28.1%	28.3%	28.5%

## ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	428	432	436	440	444	448
Open Circuit Voltage-Voc (V)	46.98	47.11	47.33	47.46	47.59	47.72
Short Circuit Current-Isc (A)	11.28	11.32	11.36	11.40	11.44	11.48
Maximum Power Voltage-Vmp(V)	39.88	40.09	40.30	40.51	40.62	40.83
Maximum Power Current-Imp(A)	10.73	10.78	10.82	10.87	10.93	10.97

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

## MECHANICAL DATA

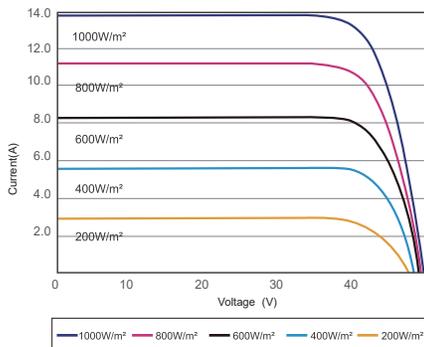
Solar Cells	Bifacial Mono-crystalline 182*91mm, MBB
Cell Configuration	144cells(6*24)
Module Dimensions	2278*1134*35mm/30mm
Weight	32/31.5kg
Front Cover	2.0+2.0mm Tempered Glass
J-Box	IP68
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL),350mm+450mm or customized length
Connectors	MC4 or MC4 Comparable

## TEMPERATURE & MAXIMUM RATINGS

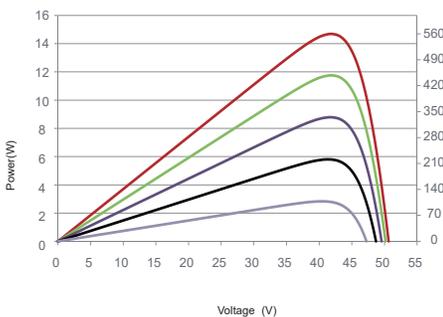
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	- 0.30%/°C
Operational Temperature	- 40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

## PACKAGING CONFIGURATION

	40HQ
Number of modules per container	620/720pcs
Package	31/36pcs/pallet
Package Number	20pallets
Package Weight	917/1010kg/pallet
Package Dimension	2310*1130*1270mm/pallet



I-V CURVES OF PV MODULE(580W)



P-V CURVES OF PV MODULE(580W)

A: Room 606, No.13, Yongshang Garden, Jinfeng Road,  
Mudu Town, Wuzhong District, Suzhou, Jiangsu Province, China  
T: +86 512-66292101  
W: www.resunsolar.com E: info@resunsolar.com