

# RT8I-M-DG

## 144 Cells

Mono Bifacial N-Type TopCon 16BB

## 565-585W

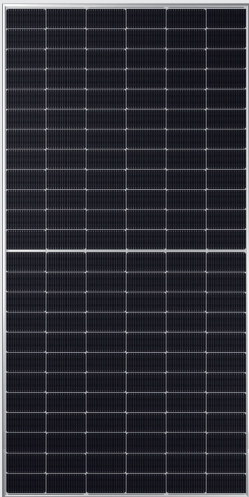
Power Output

## 22.65%

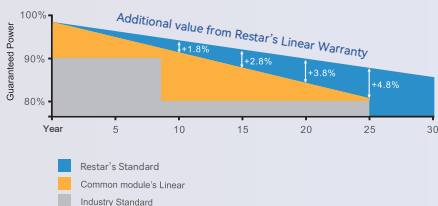
The Highest Efficiency

## ±3%

Tolerance



### 0.5% Annual Degradation over 30 years



#### LINEAR PERFORMANCE WARRANTY

**15 Year Product Warranty**

**30 Year Linear Power Warranty**

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## RT8I-M-DG DOUBLE GLASS

RT8I-M-DG HALF-CELL DOUBLE GLASS 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 lower 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

SMBB technology can effectively reduce the reliability risk caused by cell 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

SMBB 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).

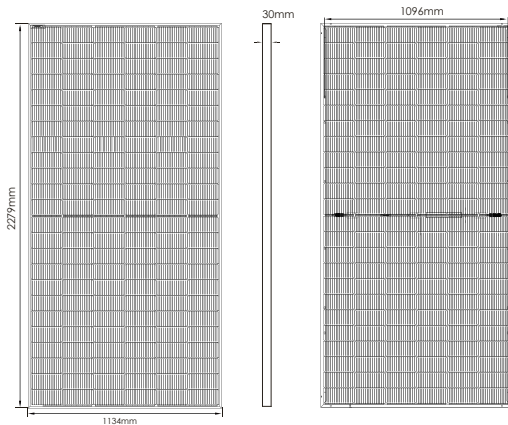
## Full range of products and certification systems

ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716

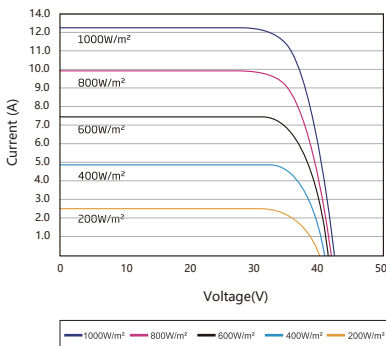


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

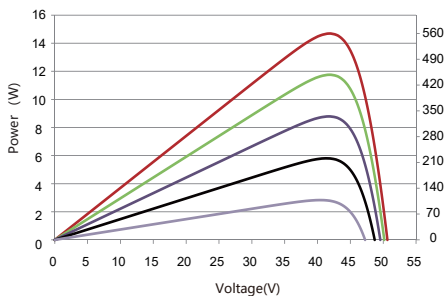
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE (580W)



P-V CURVES OF PV MODULE (580W)



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### Electrical Data(STC)

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

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

### Electrical Data(NOCT)

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

NMOT: irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, Air Mass AM1.5, wind speed 1m/s

### BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(pmax)	593W	598W	603W	609W	614W
	Module Efficiency STC(%)	22.9%	23.1%	23.3%	23.5%	23.7%
10%	Maximum Power(pmax)	621W	627W	632W	638W	643W
	Module Efficiency STC(%)	24.0%	24.2%	24.4%	24.6%	24.9%
15%	Maximum Power(pmax)	649W	655W	661W	667W	672W
	Module Efficiency STC(%)	25.1%	25.3%	25.5%	25.8%	26.0%

### MECHANICAL DATA

Solar Cells	Mono Bifacial N-Type Topcon half-cut 182*91mm 16BB
Cell Configuration	144cells(6*24)
Module Dimensions	2279*1134*30mm
Weight	31.5kg
Front Cover	2.0mm tempered glass
Back Cover	2.0mm tempered glass
J-Box	IP68, 3 Diodes
Frame Material	Anodized Aluminum Alloy
Cable	4mm <sup>2</sup> (IEC)/12AWG(UL), 300mm(+)/300mm(-) or customized
Connectors	MC4 or MC4 Compatible

### Temperature & Maximum ratings

Nominal Operating Cell Temperature(NOCT)	44°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	25A
Limiting Reverse Current	25A

### Packaging Configuration

pcs/40HQ	720
pcs/pallet	36
pallets/40HQ	20