

**BIFACIAL MODULE WITH
DOUBLE GLASS**

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RT8K-M-DG

120 Cells

Mono-crystalline , 9/10/11 Bus bars

440-465W

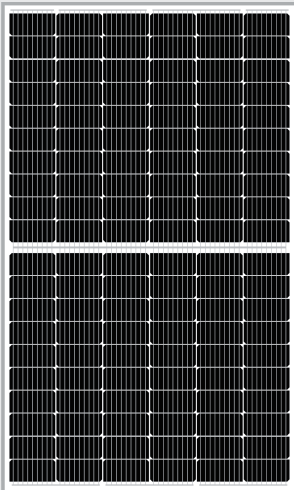
Power Output

21.55%

The Highest Efficiency

0~+5W

Tolerance



RT8K-M-DG

RT8K-M-DG HALF-CELL series is produced with high efficiency MBB 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

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.



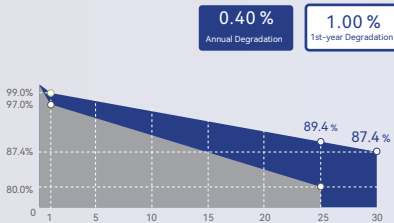
Low-Light Performance

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).



LINEAR PERFORMANCE WARRANTY

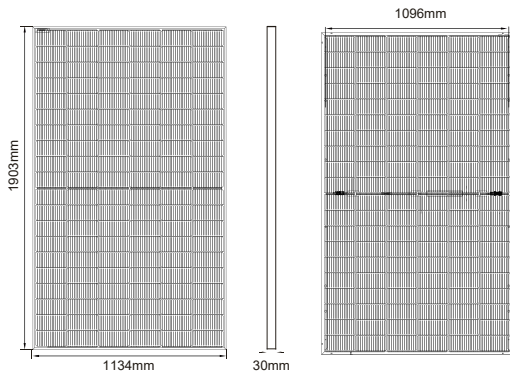
15 Year Product Warranty

30 Year Linear Power Warranty

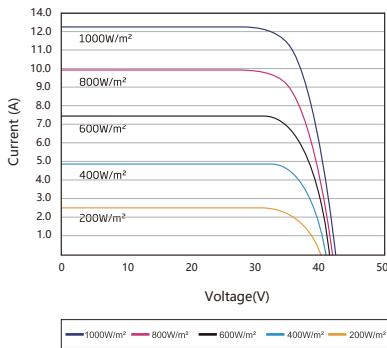
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



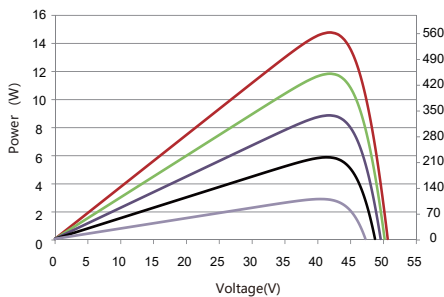
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE (450W)



P-V CURVES OF PV MODULE (450W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	440W	445W	450W	455W	460W	465W
Open Circuit Voltage-Voc(V)	41.02	41.10	41.18	41.33	41.48	41.63
Short Circuit Current-Isc(A)	13.73	13.79	13.85	13.93	14.01	14.09
Maximum Power Voltage-Vmp(V)	33.72	33.82	33.91	34.06	34.20	34.35
Maximum Power Current-Imp(A)	13.05	13.16	13.27	13.36	13.45	13.54
Module Efficiency(%)	20.39%	20.62%	20.85%	21.08%	21.32%	21.55%

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

ELECTRICAL DATA(NOCT)

Maximum Power-Pmax(Wp)	327W	331W	335W	339W	342W	345W
Open Circuit Voltage-Voc (V)	38.72	38.79	38.87	39.01	39.15	39.26
Short Circuit Current-Isc(A)	11.09	11.14	11.19	11.25	11.32	11.38
Maximum Power Voltage-Vmp(V)	31.39	31.56	31.73	31.91	32.07	32.19
Maximum Power Current-Imp(A)	10.43	10.49	10.55	10.61	10.67	10.73

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

BIFACIAL OUTPUT-REARSIDE POWER GAIN

5%	Maximum Power(pmax)	462W	467W	473W	478W	483W	488W
	Module Efficiency STC(%)	21.4%	21.7%	21.9%	22.1%	22.4%	22.6%
10%	Maximum Power(pmax)	506W	512W	518W	523W	529W	535W
	Module Efficiency STC(%)	23.4%	23.7%	24.0%	24.2%	24.5%	24.8%
15%	Maximum Power(pmax)	550W	556W	563W	569W	575W	581W
	Module Efficiency STC(%)	25.5%	25.8%	26.1%	26.4%	26.6%	26.9%

MECHANICAL DATA

Solar Cells	Mono-crystalline 182*91mm,9/10/11 Bus bars
Cell Configuration	120cells(6*20)
Module Dimensions	1903*1134*30mm
Weight	26.3kg/26.8kg
Front Cover	2.0+2.0mm Tempered Glass
J-Box	IP68
Cable	4mm ² (IEC)/12AWG(UL),350mm+450mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	36/31pcs/pallet

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.35%/°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	864/744pcs
Package	36/31pcs/pallet
Package Nuber	24pallets
Package Weight	982/866kg/pallet
Package Dimension	1935*1130*1270mm/pallet

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