



BIFACIAL MODULE WITH DOUBLE GLASS

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144 Cells

Mono N-type/Topcon MBB

550-585W

Power output

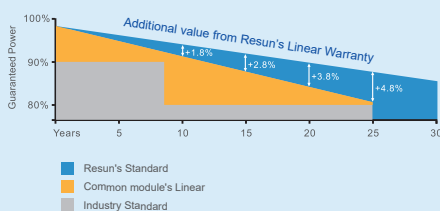
22.65%

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

RS8I-M-DG

RS8I-M-DG HALF-CELL series is produced with Topcon 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 2.0+2.0mm 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

ISO9001 TUV PID-FREE CEIEC61215/61730/61701/62716

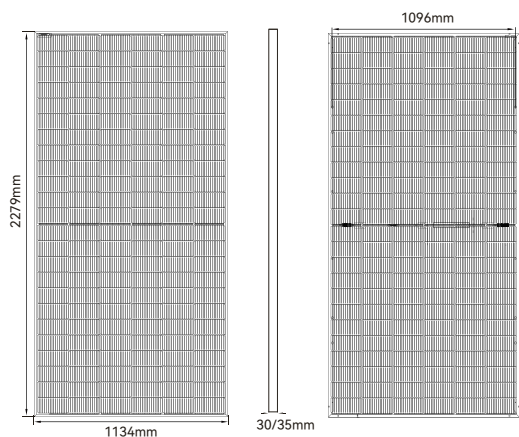


RS8I-M-DG

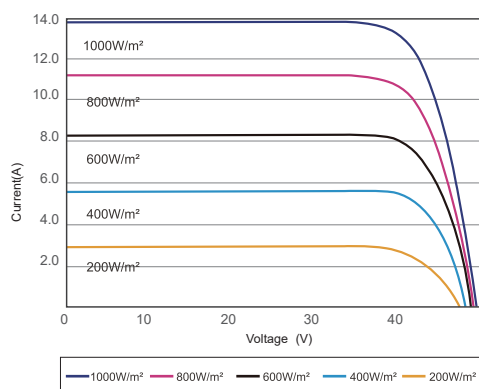


GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

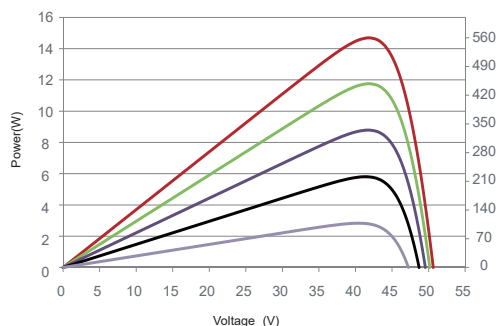
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	550	555	560	565	570	575	580	585
Open Circuit Voltage-Voc(V)	50.75	50.90	51.05	51.20	51.35	51.50	51.65	51.80
Short Circuit Current-Isc(A)	13.85	13.92	13.99	14.06	14.13	14.20	14.27	14.34
Maximum Power Voltage-Vmp(V)	42.17	42.34	42.47	42.62	42.77	42.92	43.07	43.22
Maximum Power Current-Imp(A)	13.04	13.11	13.19	13.26	13.33	13.40	13.47	13.54
Module Efficiency	21.29%	21.48%	21.68%	21.87%	22.07%	22.26%	22.45%	22.65%

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)	416	420	424	428	432	436	440	444
Open Circuit Voltage-Voc(V)	47.55	47.69	47.83	47.97	48.11	48.26	48.40	48.54
Short Circuit Current-Isc(A)	11.19	11.25	11.30	11.36	11.42	11.47	11.53	11.59
Maximum Power Voltage-Vmp(V)	39.56	39.71	39.84	39.98	40.12	40.26	40.40	40.54
Maximum Power Current-Imp(A)	10.51	10.56	10.64	10.71	10.77	10.83	10.89	10.95

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

INTEGRATED POWER @ STC (REFERENCE TO 10%)

Rated Power in Watts-Pmax(Wp)	605	611	616	622	627	632	638	643
Open Circuit Voltage-Voc(V)	50.75	50.90	51.05	51.20	51.35	51.50	51.65	51.80
Short Circuit Current-Isc(A)	15.24	15.32	15.39	15.47	15.54	15.61	15.70	15.76
Maximum Power Voltage-Vmp(V)	42.17	42.34	42.47	42.62	42.77	42.92	43.07	43.22
Maximum Power Current-Imp(A)	14.35	14.43	14.51	14.59	14.66	14.73	14.82	14.88
Module Efficiency(%)	23.42%	23.65%	23.85%	24.08%	24.27%	24.47%	24.70%	24.89%
BNPI/Isc(BSI)	17.17	17.26	17.35	17.43	17.52	17.61	17.69	17.78

MECHANICAL DATA

Solar cells	Mono-crystalline 182*91mm, 9/10/16 Bus bars
Cell configuration	144cells(6*24)
Module dimensions	2279*1134*30mm/35mm
Weight	31.5kg/32.0kg
Front Cover	2.0+2.0mm Tempered Glass
J-BOX	IP68
Cable	4mm ² (IEC)/12AWG(UL), 300mm+300mm(or customized)
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
Modules per container	740/620 pcs
Package	37/31 pcs/pallet
Package Number	20 pallets

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