

**BIFACIAL MODULE WITH
DOUBLE GLASS**

WWW.RESTARSOLAR.COM

RT8I-M-DG

144 Cells

Mono-crystalline , 9/10/11 Bus bars

525-560W

Power Output

21.67%

The Highest Efficiency

0~+5W

Tolerance

RT8I-M-DG

RT8I-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.



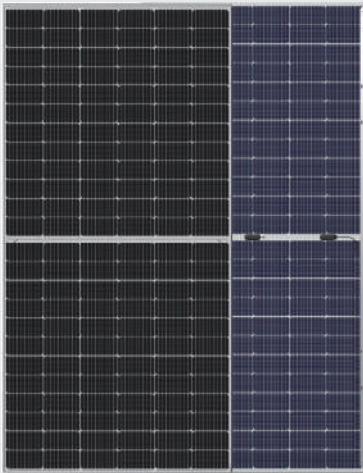
Low-Light Performance

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

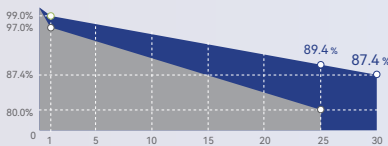


High Mechanical Strength

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



0.40% Annual Degradation
1.00% 1st-year Degradation



Standard Module Linear Performance Warranty
RESTAR TOPCON Module Linear Performance Warranty

LINEAR PERFORMANCE WARRANTY

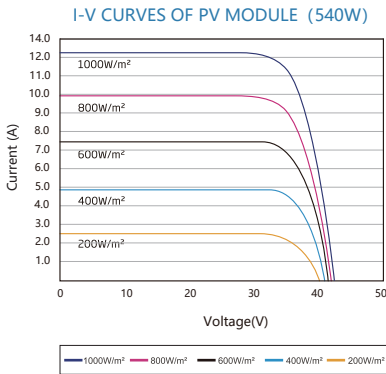
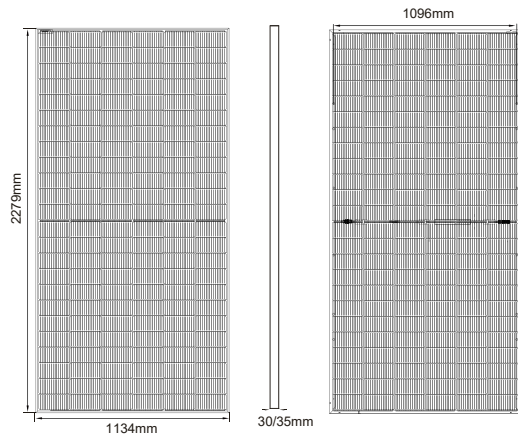
15 Year Product Warranty

30 Year Linear Power Warranty

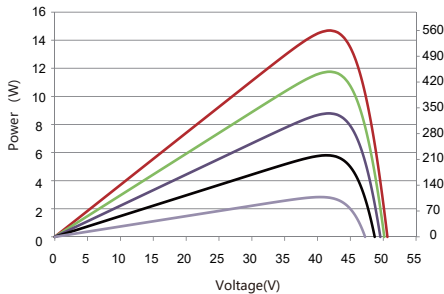
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



Dimension of PV Modules Unit: mm



P-V CURVES OF PV MODULE (540W)



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	525W	530W	535W	540W	545W	550W	555W	560W
Open Circuit Voltage-Voc(V)	49.15	49.30	49.45	49.60	49.75	49.90	49.98	50.05
Short Circuit Current-Isc(A)	13.65	13.72	13.79	13.86	13.93	14.00	14.03	14.07
Maximum Power Voltage-Vmp(V)	41.15	41.31	41.47	41.64	41.80	41.96	41.06	42.12
Maximum Power Current-Imp(A)	12.76	12.83	12.90	12.97	13.04	13.11	13.19	13.30
Module Efficiency(%)	20.31%	20.51%	20.70%	20.89%	21.09%	21.28%	21.48%	21.67%

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)	397W	401W	405W	408W	412W	416W	420W	424W
Open Circuit Voltage-Voc (V)	46.05	46.18	46.31	46.43	46.55	46.68	46.78	46.85
Short Circuit Current-Isc(A)	10.97	11.01	11.05	11.09	11.13	11.17	11.20	11.24
Maximum Power Voltage-Vmp(V)	38.36	38.57	38.78	38.99	39.2	39.43	39.62	39.67
Maximum Power Current-Imp(A)	10.35	10.39	10.43	10.47	10.51	10.55	10.60	10.69

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

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(pmax)	551W	557W	562W	567W	572W	578W	583W	588W
	Module Efficiency STC(%)	21.3%	21.5%	21.7%	21.9%	22.1%	22.3%	22.5%	22.8%
10%	Maximum Power(pmax)	604W	610W	615W	621W	627W	633W	638W	644W
	Module Efficiency STC(%)	23.4%	23.6%	23.8%	24.0%	24.3%	24.5%	24.7%	24.9%
15%	Maximum Power(pmax)	656W	663W	669W	675W	681W	688W	694W	700W
	Module Efficiency STC(%)	25.4%	25.6%	25.9%	26.1%	26.4%	26.6%	26.8%	27.1%

MECHANICAL DATA

Solar Cells	Mono-crystalline 182*91mm,9/10/11 Bus bars
Cell Configuration	144cells(6*24)
Module Dimensions	2279*1134*35mm/30mm
Weight	32/31.5kg
Front Cover	2.0+2.0mm 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 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	620/720pcs
Package	31/36pcs/pallet
Package Nuber	20pallets
Package Weight	1032/1174kg/pallet
Package Dimension	2310*1130*1270mm/pallet

Address: No.30 Yongshun Road, Zhulin Town, Jintan District, Changzhou, Jiangsu Province, China
Web: www.restarsolar.com
E-mail: sales@restarsolar.com
Tel: +86 512-66292101