

RT8X-M-BD

96 Cells

Mono Topcon 16 BB

430-460W

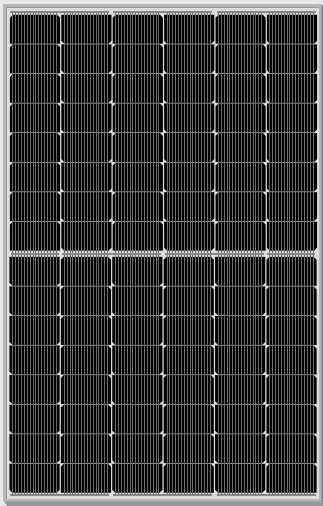
Power output

23.02%

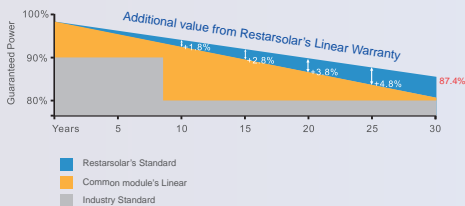
The Highest Efficiency

0~+5W

Tolerance



0.42% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty

WWW.RESTARSOLAR.COM

RT8X-M-BD BIFACIAL

RT8X-M-BD HALF-CELL 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

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).

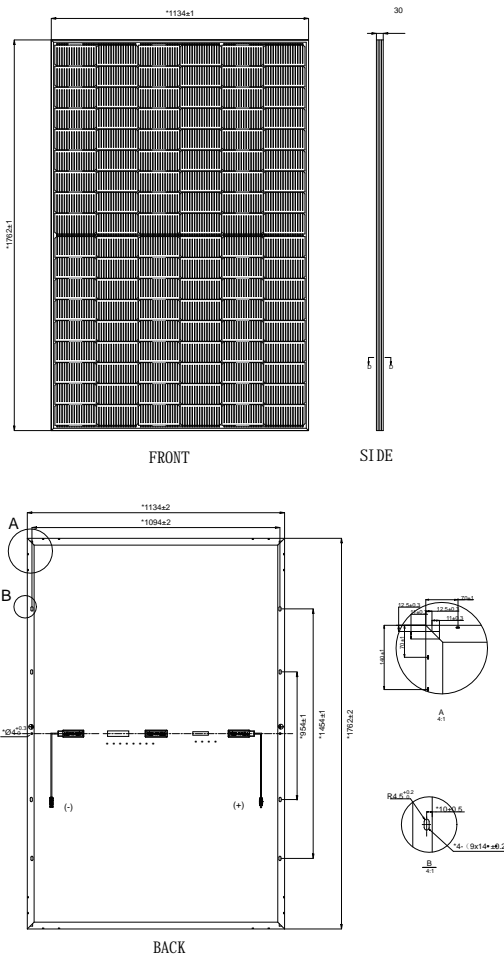
Full range of products and certification systems

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



GLOBAL PROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	430	435	440	445	450	455	460
Open Circuit Voltage-Voc(V)	34.35	34.55	34.75	34.95	35.15	35.35	35.55
Short Circuit Current-Isc(A)	15.93	16	16.07	16.14	16.21	16.27	16.34
Maximum Power Voltage-Vmp(V)	28.61	28.81	29.01	29.2	29.4	29.61	29.8
Maximum Power Current-Imp(A)	15.03	15.1	15.17	15.24	15.31	15.37	15.44
Module Efficiency	21.52%	21.77%	22.02%	22.27%	22.52%	22.77%	23.02%

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)	327	331	335	339	343	347	351
Open Circuit Voltage-Voc (V)	32.19	32.37	32.56	32.75	32.94	33.12	33.31
Short Circuit Current-Isc(A)	12.87	12.93	12.98	13.04	13.1	13.15	13.2
Maximum Power Voltage-Vmp(V)	26.84	27.02	27.21	27.39	27.58	27.77	27.95
Maximum Power Current-Imp(A)	12.19	12.25	12.31	12.38	12.44	12.49	12.56

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

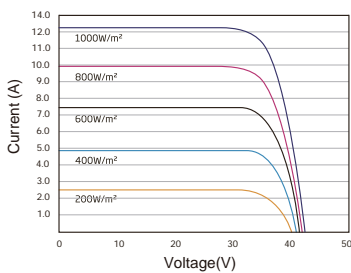
MECHANICAL DATA

Solar cells	Mono-crystalline 182*105mm, 16 Bus bars
Cell configuration	96cells(6*16)
Module dimensions	1762*1134*30mm
Weight	21.7kg
Front Cover	3.2mm Tempered Glass
J-BOX	IP68, 3 Diodes
Cable	4mm²(IEC)/12AWG(UL),300mm+300mm(or customized)
Connectors	MC4 or MC4 Compatible
Standard Packaging	37pcs/pallet

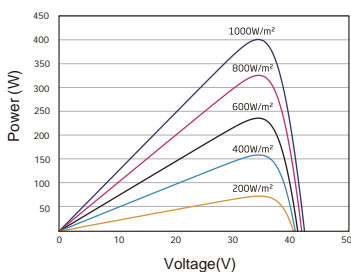
TEMPERATURE & MAXIMUM RATINGS

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	-0.29%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

I-V CURVES OF PV MODULE(460W)



P-V CURVES OF PV MODULE(460W)



PACKAGING CONFIGURATION

Number of modules per container	962 pcs/40HQ
Package	37 pcs/pallet
Package Number	26 pallets

Add: No.99 Zhidong Road, Zhixi Town, Jintan District, Changzhou, Jiangsu Province, China
 Email: info@restarsolar.com
 Web: www.restarsolar.com