

RT7I-M-FB

108 Cells

Mono N-Type/Topcon MBB

425-450W

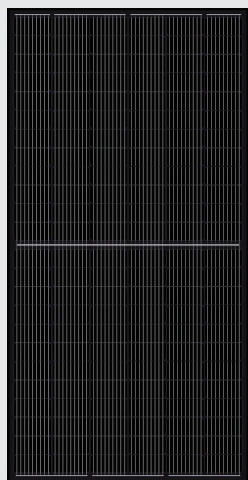
Power output

20.70%

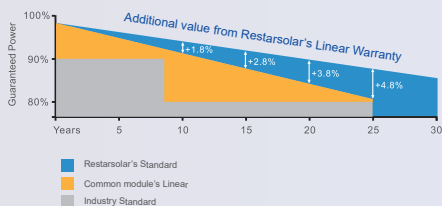
The Highest Efficiency

0~+5W

Tolerance



0.5% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty

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RT7I-M-FB FULL BLACK

RT7I-M FULL BLACK 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. The full black design makes the module appearance outstanding and ideal for building installations.



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.



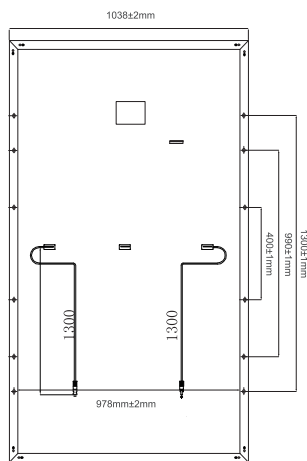
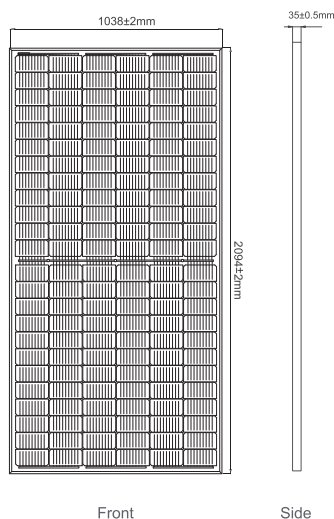
High Mechanical Strength

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

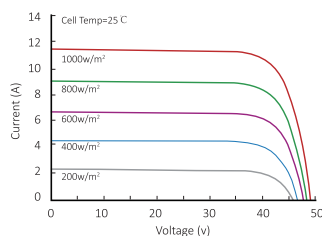
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



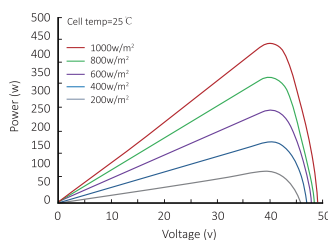
Dimension of PV Modules Unit: mm



Current-Voltage Curve



Power-Voltage Curve



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	425	430	435	440	445	450
Open Circuit Voltage-Voc(V)	48.30	48.50	48.70	48.90	49.10	49.30
Short Circuit Current-Isc(A)	11.23	11.31	11.39	11.46	11.53	11.60
Maximum Power Voltage-Vmp(V)	40.50	40.70	40.90	41.10	41.30	41.50
Maximum Power Current-Imp(A)	10.50	10.57	10.64	10.71	10.78	10.85
Module Efficiency	19.55%	19.78%	20.01%	20.24%	20.47%	20.70%

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)	317.40	321.10	324.90	328.60	332.30	336.10
Open Circuit Voltage-Voc (V)	45.30	45.50	45.70	45.80	46.00	46.20
Short Circuit Current-Isc(A)	9.08	9.15	9.21	9.27	9.33	9.38
Maximum Power Voltage-Vmp(V)	37.70	37.90	38.10	38.30	38.50	38.60
Maximum Power Current-Imp(A)	8.42	8.47	8.53	8.59	8.64	8.70

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

MECHANICAL DATA

Solar Cells	Half-Cell Mono 166x83mm, 9 Bus bars
Cell Configuration	144 Cells (6x24)
Module Dimensions	2094x1038x35mm
Weight	25KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Black Anodized Aluminum Alloy
J-Box	IP67 or IP68, 3 Diodes
Cable	4mm²(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	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)/1500V(UL)
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

PACKAGING CONFIGURATION

Number of modules per container	726pcs
Package	31pcs/pallet, 2pcs/carton
Package Number	22pallets+22 cartons