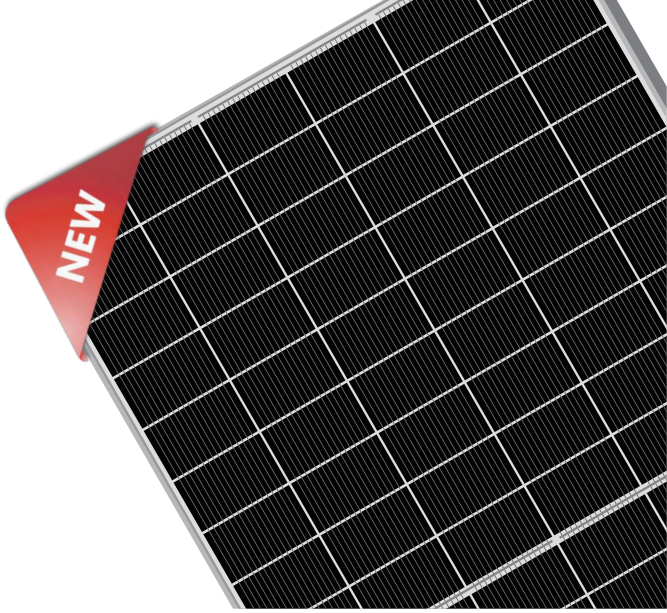
Quality Maker®
Restarsolar, power the life

GLOBALPROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER



WWW.RESTARSOLAR.COM

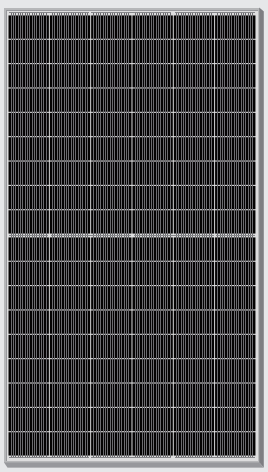
RT8V-M

108 Cells
Topcon Mono 16 BB

490-515W
Power output

23.16%
The Highest Efficiency

0~+5W
Tolerance



RT8V-M(TOPCON)

RT8V-M 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-spotcrisis 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.

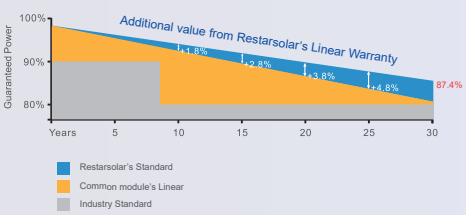
Durability Against Extreme Conditions
Certified to resist high salt mist and ammonia conditions.

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).

0.42% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty
30 Year Linear Power Warranty

Full range of products and certification systems

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

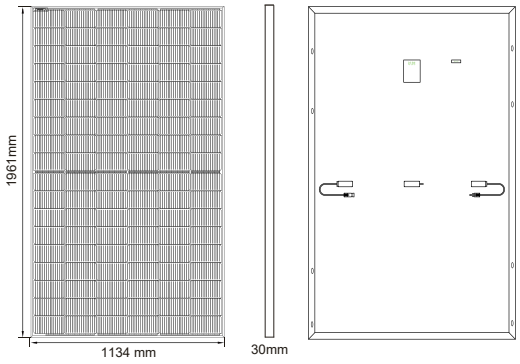
Quality Maker®
Restarsolar, power the life

RT8V-M(TOPCON)

WWW.RESTARSOLAR.COM

GLOBALPROFESSIONAL PV PRODUCTS INTEGRATED SOLUTIONS SUPPLIER

Dimension of PV Modules Unit: mm



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	490	495	500	505	510	515
Open Circuit Voltage-Voc(V)	39.15	39.35	39.55	39.75	39.95	40.15
Short Circuit Current-Isc(A)	15.94	16.00	16.06	16.12	16.18	16.24
Maximum Power Voltage-Vmp(V)	32.65	32.85	33.05	33.25	33.45	33.65
Maximum Power Current-Imp(A)	15.01	15.07	15.13	15.19	15.25	15.31
Module Efficiency(%)	22.03%	22.26%	22.48%	22.71%	22.93%	23.16%

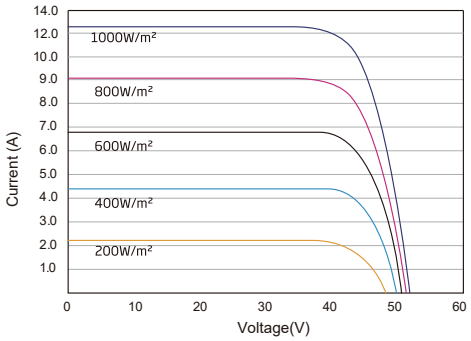
STC: Irradiance 1000 W/m², Cell Temperature 25°C,Air Mass AM1.5 according to EN 60904-3.

ELECTRICAL DATA(NOCT)

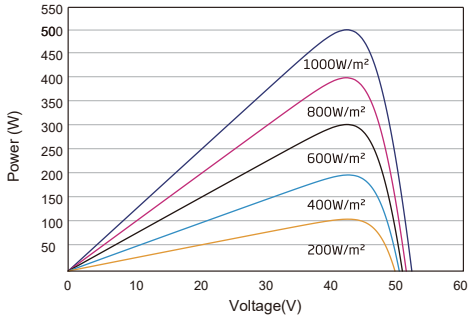
Maximum Power-Pmax(Wp)	370	374	378	382	386	389
Open Circuit Voltage-Voc (V)	36.68	36.87	37.06	37.25	37.43	37.62
Short Circuit Current-Isc(A)	12.88	12.93	12.98	13.02	13.07	13.12
Maximum Power Voltage-Vmp(V)	30.63	30.81	31.00	31.19	31.38	31.56
Maximum Power Current-Imp(A)	12.10	12.14	12.19	12.24	12.29	12.34

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

I-V CURVES OF PV MODULE(500 W)



P-V CURVES OF PV MODULE(500W)



MECHANICAL DATA

Solar Cells	Mono-crystalline 182*105mm,16Bus bars
Cell Configuration	108cells(6*18)
Module Dimensions	1961*1134*30mm
Weight	22.7kg
Front Cover	3.2mmTempered Glass
J-Box	IP68
Cable	4mm²(IEC)/12AWG(UL),300mm+300mm
Connectors	MC4 or MC4 Comparable
Standard Packaging	36/37pcs/pallet

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°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

PACKAGING CONFIGURATION

	40HQ
Number of modules per container	864/888 pcs
Package	36/37 pcs/pallet
Package Number	24 pallets

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