

RT8L-M-DG

156 Cells

Mono N-Type/Topcon 16 BB

595-640W

Power output

22.90%

The Highest Efficiency

0~+5W

Tolerance

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RT8L-M-DG

RT8L-M-DG 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 2.0+2.0mm tempered glass, the module has stronger performance under low light circumstances.

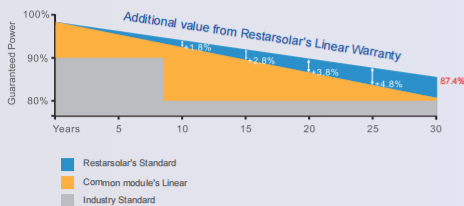


High Mechanical Strength

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



0.42% Annual Degradation over 30 years



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

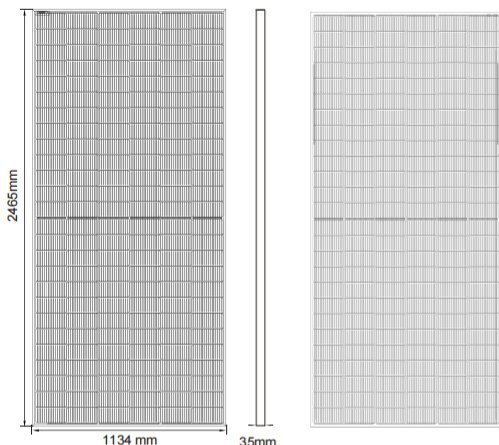
30 Year Linear Power Warranty

Full range of products and certification systems

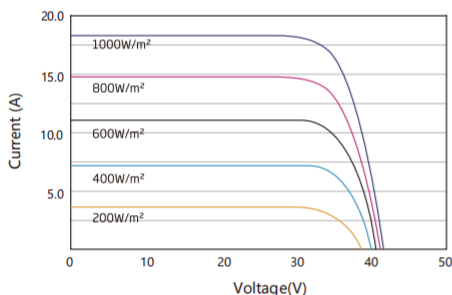
ISO 9001/14001 TUV PID-FREE CE IEC 61215/61730/61701/62716



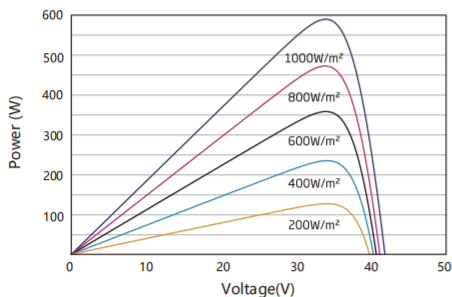
Dimension of PV Modules Unit: mm



I-V CURVES OF PV MODULE



P-V CURVES OF PV MODULE



ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	595	600	610	620	625	630	635	640
Open Circuit Voltage-Voc(V)	55.00	55.15	55.45	55.65	55.80	55.95	56.10	56.25
Short Circuit Current-Isc(A)	13.83	13.90	14.03	14.16	14.22	14.29	14.35	14.42
Maximum Power Voltage-Vmp(V)	45.70	45.85	46.15	46.45	46.61	46.75	46.90	47.04
Maximum Power Current-Imp(A)	13.02	13.09	13.22	13.35	13.41	13.48	13.54	13.61
Module Efficiency(%)	21.29%	21.46%	21.82%	22.18%	22.36%	22.54%	22.72%	22.90%

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)	450	454	462	470	474	478	482	486
Open Circuit Voltage-Voc (V)	51.54	51.68	51.96	52.14	52.28	52.43	52.57	52.71
Short Circuit Current-Isc(A)	11.17	11.23	11.34	11.44	11.49	11.55	11.59	11.65
Maximum Power Voltage-Vmp(V)	42.87	43.01	43.29	43.57	43.72	43.85	43.99	44.12
Maximum Power Current-Imp(A)	10.49	10.55	10.67	10.79	10.84	10.90	10.96	11.01

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

INTEGRATED PWER @ STC (REFERENCE TO 10%)

Rated Power in Watts-Pmax(Wp)	655	660	666	671	677	682	688	693
Open Circuit Voltage-Voc(V)	55.00	55.15	55.30	55.45	55.50	55.65	55.80	55.95
Short Circuit Current-Isc(A)	15.23	15.29	15.37	15.43	15.51	15.57	15.65	15.71
Maximum Power Voltage-Vmp(V)	45.70	45.85	46.01	46.15	46.30	46.45	46.61	46.75
Maximum Power Current-Imp(A)	14.34	14.40	14.48	14.54	14.62	14.68	14.76	14.82
Module Efficiency(%)	23.43%	23.61%	23.83%	24.00%	24.22%	24.40%	24.61%	24.79%
BNPI/Isc(BSI)	17.15	17.24	17.31	17.40	17.48	17.56	17.63	17.72

MECHANICAL DATA

Solar cells	Mono-crystalline 182*91mm, 16 Bus bars
Cell configuration	156 cells (6*26)
Module dimensions	2465*1134*30mm
Weight	34.1kg
Front Cover	2.0+2.0mm Tempered Glass
Frame Materia	IP68
J-BOX	4mm ² (IEC)/12AWG(UL), 300mm/300mm
Cable	MC4 or MC4 Comparable
Standard Packaging	36 pcs/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	- 0.30%/°C
Operational Temperature	- 40~+85°C
Maximum System Voltage	1500V(EC)/1500V(UL)
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

Modules per container	40HQ
Package	576 pcs
Package Number	36 pcs/pallet
	16 pallets