

SKYMAX^{series}

RM-xxx W-182M/156TB (xxx=610-650)

N-TOPCon Bifacial Monocrystalline Module

- Suitable for centralised PV generation.
- Warranty Upgrades.
- High efficiency and strong power generation.
- Safer smart manufacturing.
- No-Destructive Cutting.
- Junction Box Laser Welding Technology.

2465×1134×35/30

Dimensions (mm)

156 CELL

Mono TOPCon

610-650Wp

Power output

1500V DC

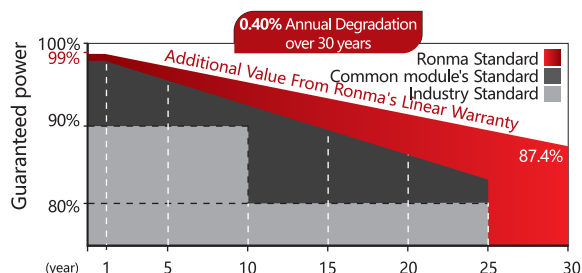
Max system voltage

23.25%

Max efficiency .

LINEAR PERFORMANCE WARRANTY

15-year product warranty / 30-year linear power warranty



IEC61215:2021/IEC61730:2023/IEC61701/IEC62716/WEEE De93315506



Higher Power Output

Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.



Multi Busbar Technology

By improving optical utilization rate, power increases by 2~3% and efficiency increases by 0.4~0.6%.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and material control.



Low-light Performance

Excellent performance in low light.



Durability Against Extreme Environmental Conditions

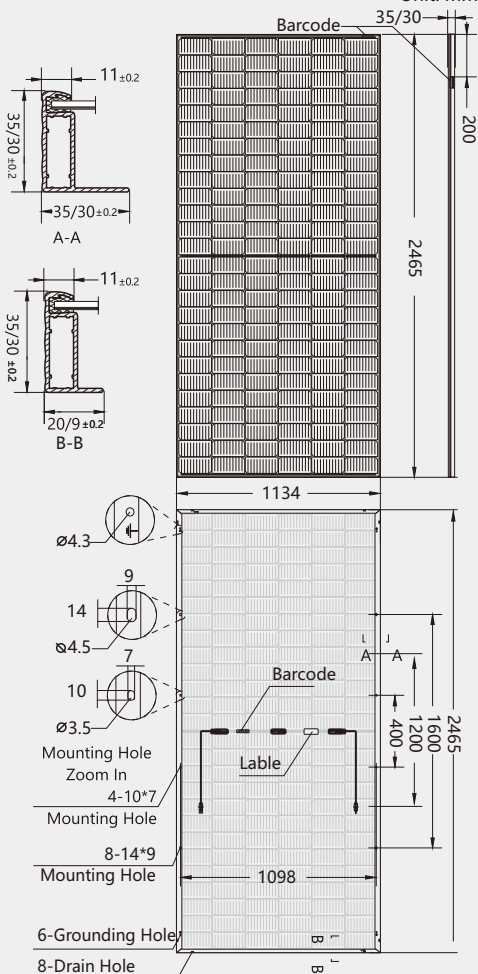
High salt mist and ammonia resistance certified by TUV Rheinland (On Request)



EL Full Inspection

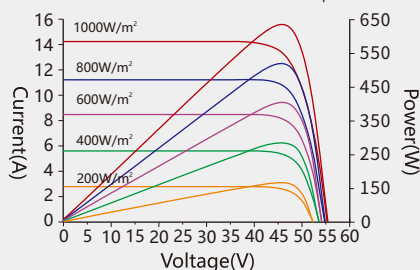
Dual-stage 100% EL Inspection.

Unit: mm

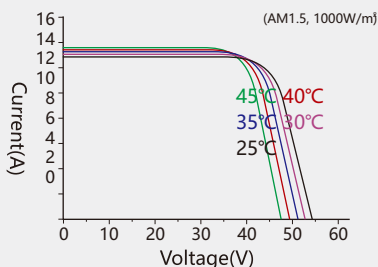


RM-650W-182M/156TB

I-V characteristics at different irradiations
Cells temp.=25°C



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	610	615	620	625	630	635	640	645	650
Open Circuit Voltage-Voc(V)	56.81	56.98	57.15	57.32	57.49	57.67	57.84	58.01	58.19
Short Circuit Current-Isc(A)	13.58	13.65	13.72	13.78	13.85	13.92	13.99	14.06	14.13
Max. Power Voltage-Vmpp(V)	47.50	47.64	47.79	47.93	48.07	48.22	48.36	48.51	48.65
Max. Power Current-Imp(A)	12.85	12.91	12.98	13.04	13.11	13.17	13.24	13.31	13.37
Module Efficiency(%)	21.82	22.00	22.18	22.36	22.54	22.72	22.89	23.07	23.25
Maximum system voltage	1500V DC								
Fuse Rating(A)	30 -								
Temperature coefficient Pmax	0.30%/°C								
Temperature coefficient Isc	0.046%/°C								
Temperature coefficient Voc	-0.25%/°C								
Power tolerance	0~+5W								

*STC:Irradiance 1000W/m², module temperature 25°C,AM=1.5

*Tolerance of power/Voc/Isc $\pm 2\%/\pm 3\%/\pm 4\%$

SPECIFICATIONS(BNPI)

Rated Power in Watts-Pmax(Wp)	674.0	679.4	684.8	690.2	695.6	701.1	707.0	712.6	718.1
Open Circuit Voltage-Voc(V)	57.01	57.18	57.35	57.52	57.69	57.87	58.04	58.21	58.39
Short Circuit Current-Isc(A)	14.94	15.02	15.09	15.17	15.24	15.31	15.40	15.47	15.54
Max. Power Voltage-Vmpp(V)	47.70	47.84	47.99	48.13	48.27	48.42	48.56	48.71	48.85
Max. Power Current-Impp(A)	14.13	14.20	14.27	14.34	14.41	14.48	14.56	14.63	14.70
Refer.Bifacial Factor	$\phi_{Isc}=80\% \pm 10\%, \phi_{Voc}=100\% \pm 3\%, \phi_{Pmax}=80\% \pm 10\%$								
Operating Temperature	-40 °C~70 °C								
BSI-Short Circuit Current-Isc(A)	16.61	16.69	16.77	16.85	16.93	17.01	17.11	17.19	17.27

*BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

*BSI: Irradiance: front 1000W/m², rear 300W/m², Cell Temperature 25°C, AM=1.5

MECHANICAL CHARACTERISTICS

Number of cells	156pcs
Type of cell	N-TOPCon Mono
Thickness of glass(mm)	2.0
Junction box	IP68, 1500V DC, 3 Diodes
Type of frame	Anodized Aluminum Alloy
Size of module(mm)	2465×1134×35/30
Weight(kg)	34
Cables/connectors	4.0mm², MC4 compatible
Connector	PV-ZKC2 Shanxi Zhongke Anrui Energy Technology Co., LTD HYG-01 Haiying New Energy Technology(Kunshan) Co., LTD. PV-CNT03-xy SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD
Length of Cable	+300mm/-200mm (connector included) Length can be customized

*Fire Rating:Class C; Module[T98]max:70°C.

Made in China

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	2485×1120×1260	2485×1120×1260
Box Gross Weight (kg)	1080	1250
Number of Modules Per 40ft (HQ) Container	496	576
Number of Pallets Per 40ft (HQ) Container	16	16

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
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