

SKYMAX^{series}

RM-560-600W-182M/144TB

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.

2279×1134×35/30

Dimensions(mm)

144 CELL

Mono TOPCon

560-600Wp

Power output

1500V DC

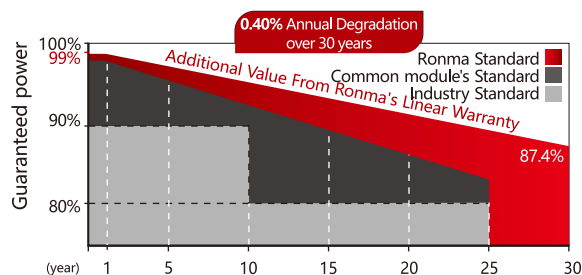
Max system voltage

23.22%

Max efficiency

LINEAR PERFORMANCE WARRANTY

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



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 NORD.



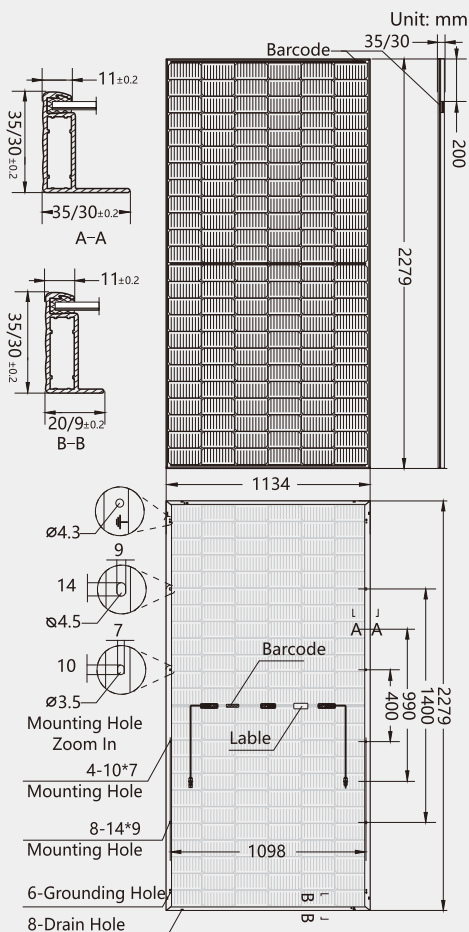
EL Full Inspection

Dual-stage 100% EL Inspection.

IEC61215/IEC61730/IEC61701/IEC62716/WEEE De93315506

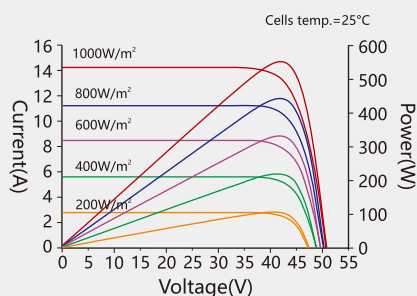


Dimensions of PV Module

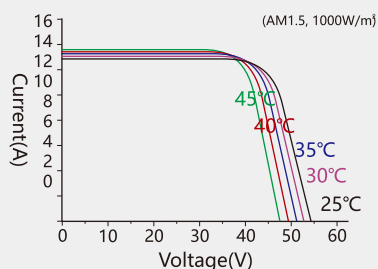


RM-600W-182M/144TB

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	560	565	570	575	580	585	590	595	600
Open Circuit Voltage-Voc(V)	52.45	52.61	52.77	52.93	53.09	53.26	53.41	53.57	53.73
Short Circuit Current-Isc(A)	13.47	13.55	13.62	13.69	13.76	13.83	13.89	13.95	14.01
Max. Power Voltage-Vmpp(V)	44.12	44.26	44.39	44.61	44.84	45.06	45.28	45.50	45.72
Max. Power Current-Impp(A)	12.71	12.79	12.85	12.90	12.95	13.00	13.06	13.12	13.18
Module Efficiency(%)	21.67	21.86	22.06	22.25	22.44	22.6	22.8	23.02	23.22
Maximum system voltage	1500V DC								
Fuse Rating(A)	30								
Temperature coefficient Pmax	-0.29%/°C								
Temperature coefficient Isc	0.045%/°C								
Temperature coefficient Voc	-0.25%/°C								
Refer. Bifacial Factor	$\phi_{Isc}=80\% \pm 10\%$, $\phi_{Voc}=100\% \pm 3\%$, $\phi_{Pmax}=80\% \pm 10\%$								

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

SPECIFICATIONS(BNPI)

Rated Power in Watts-Pmax(Wp)	619.1	624.9	629.9	635.3	641.1	647.0	652.5	658.8	665.2
Open Circuit Voltage-Voc(V)	52.65	52.81	52.97	53.13	53.29	53.45	53.61	53.77	53.93
Short Circuit Current-Isc(A)	14.81	14.91	14.98	15.05	15.13	15.21	15.28	15.34	15.41
Max. Power Voltage-Vmpp(V)	44.32	44.46	44.59	44.81	45.04	45.26	45.48	45.70	45.92
Max. Power Current-Impp(A)	13.97	14.06	14.13	14.18	14.24	14.30	14.35	14.42	14.49
Power tolerance	0~+3%								
Operating Temperature	-40°C~85°C								

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

MECHANICAL CHARACTERISTICS

Number of cells	144pcs
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)	2279×1134×30
Weight(kg)	32
Cables/connectors	4.0mm², MC4 compatible
Length of Cable	+300mm/-200mm (connector included) Length can be customized

PACKAGING CONFIGURATION

Height of Modules (mm)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260	2300×1120×1260
Box Gross Weight (kg)	1020	1180
Number of Modules Per 40ft (HQ) Container	620	720
Number of Pallets Per 40ft (HQ) Container	20	20

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
©2023 Ronma Solar. All rights reserved. Specifications included in this datasheet are subject to change without notice.

