

SKYMAX^{series}

RM-450-470W-182R/96TB

N-TOPCon Bifacial Monocrystalline Module

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

1762×1134×30

Dimensions (mm)

96 CELL

Mono TOPCon

450-470Wp

Power output

1500V DC

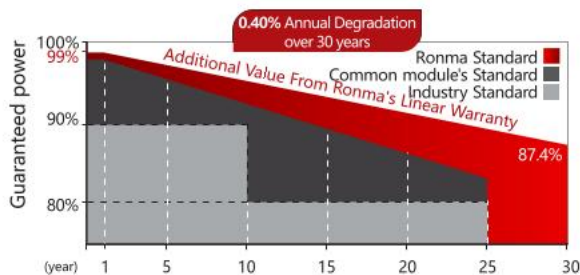
Max. system voltage

23.52%

Max. efficiency

LINEAR PERFORMANCE WARRANTY

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



IEC61215/IEC61730/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.



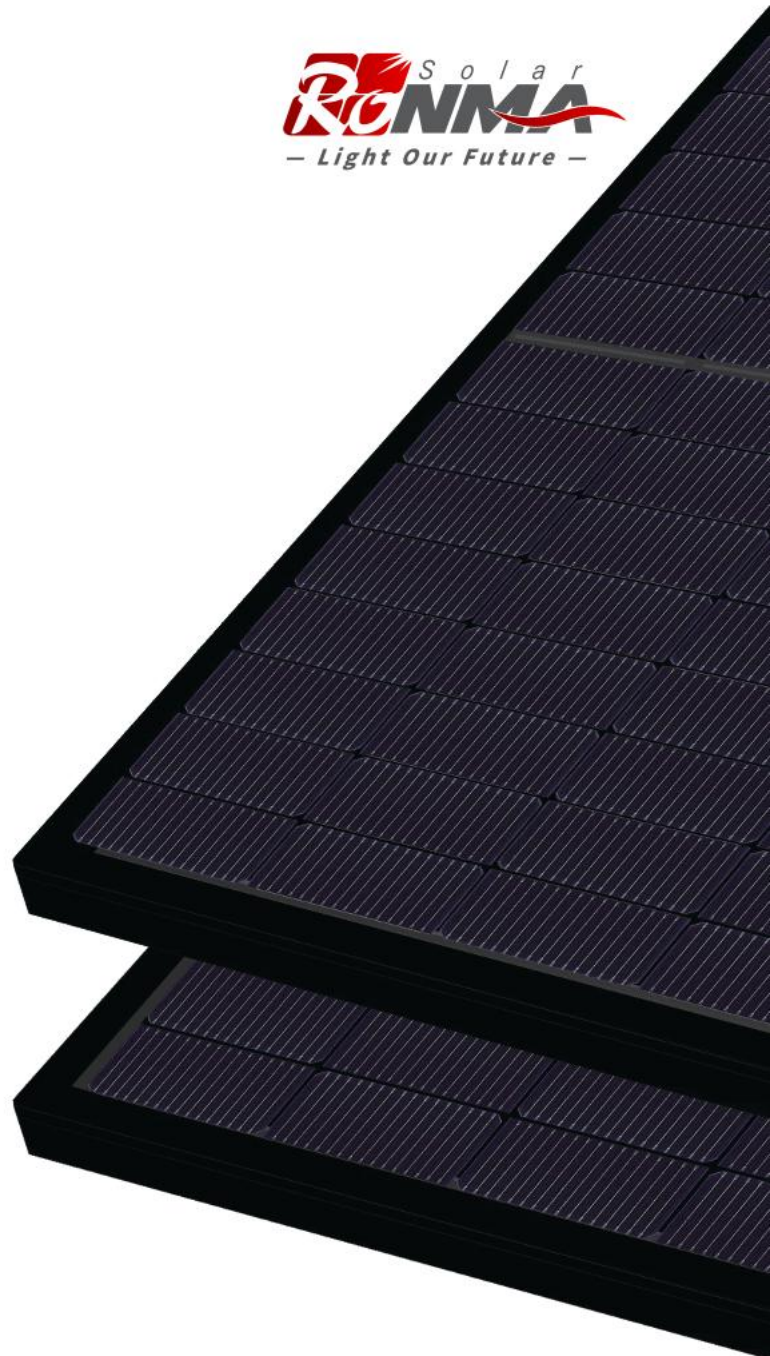
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TÜV NORD.

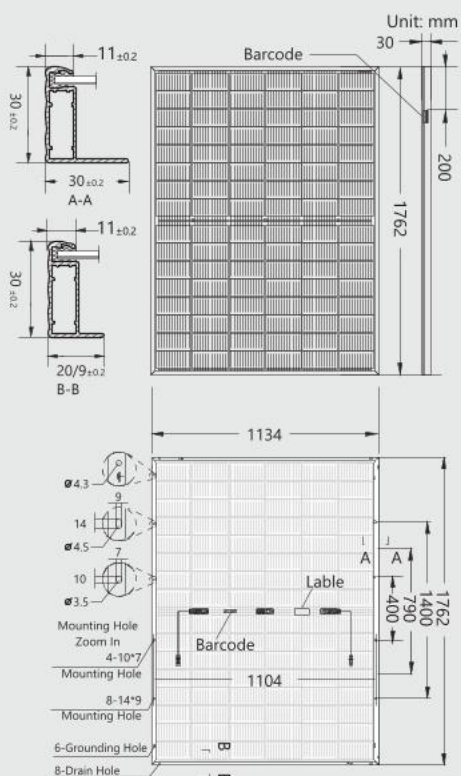


EL Full Inspection

Dual-stage 100% EL Inspection.



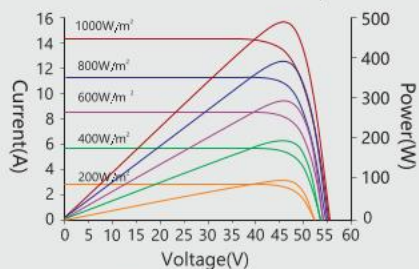
Dimensions of PV Module



RM-470W-182R/96TB

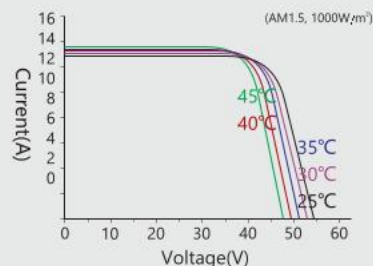
I-V characteristics at different irradiances

Cells temp.=25°C



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	450	455	460	465	470
Open Circuit Voltage-Voc(V)	35.03	35.21	35.39	35.57	35.75
Short Circuit Current-Isc(A)	16.05	16.10	16.15	16.20	16.25
Max. Power Voltage-Vmpp(V)	30.08	30.26	30.44	30.62	30.80
Max. Power Current-Impp(A)	14.97	15.04	15.12	15.20	15.27
Module Efficiency(%)	22.52	22.77	23.02	23.27	23.52
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				
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)	497	502	508	513	518
Open Circuit Voltage-Voc(V)	35.23	35.41	35.59	35.77	35.95
Short Circuit Current-Isc(A)	17.62	17.67	17.73	17.78	17.83
Max. Power Voltage-Vmpp(V)	30.28	30.46	30.64	30.82	31.00
Max. Power Current-Impp(A)	16.42	16.49	16.58	16.65	16.72
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	96pcs
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)	1762×1134×30
Weight(kg)	25.5
Cables/connectors	4.0mm², MC4 compatible
Length of Cable	+300mm/-200mm (connector included) Length can be customized

PACKAGING CONFIGURATION

Height of Modules (mm)	30
Number of Modules Per Pallet	36
Packaging Box Dimensions (l×w×h) (mm)	1778×1134×1260
Box Gross Weight (kg)	931
Number of Modules Per 40ft (HQ) Container	936
Number of Pallets Per 40ft (HQ) Container	26

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
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