

SKYMAX^{series}

RM-420-460W-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.

1762×1134×35/30

Dimensions (mm)

96 CELL **420-460Wp**

Mono TOPCon

Power output

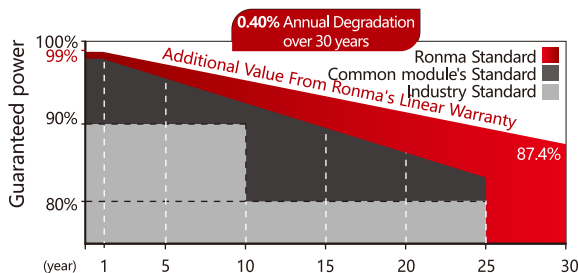
1500V DC **23.02%**

Max. system voltage

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.



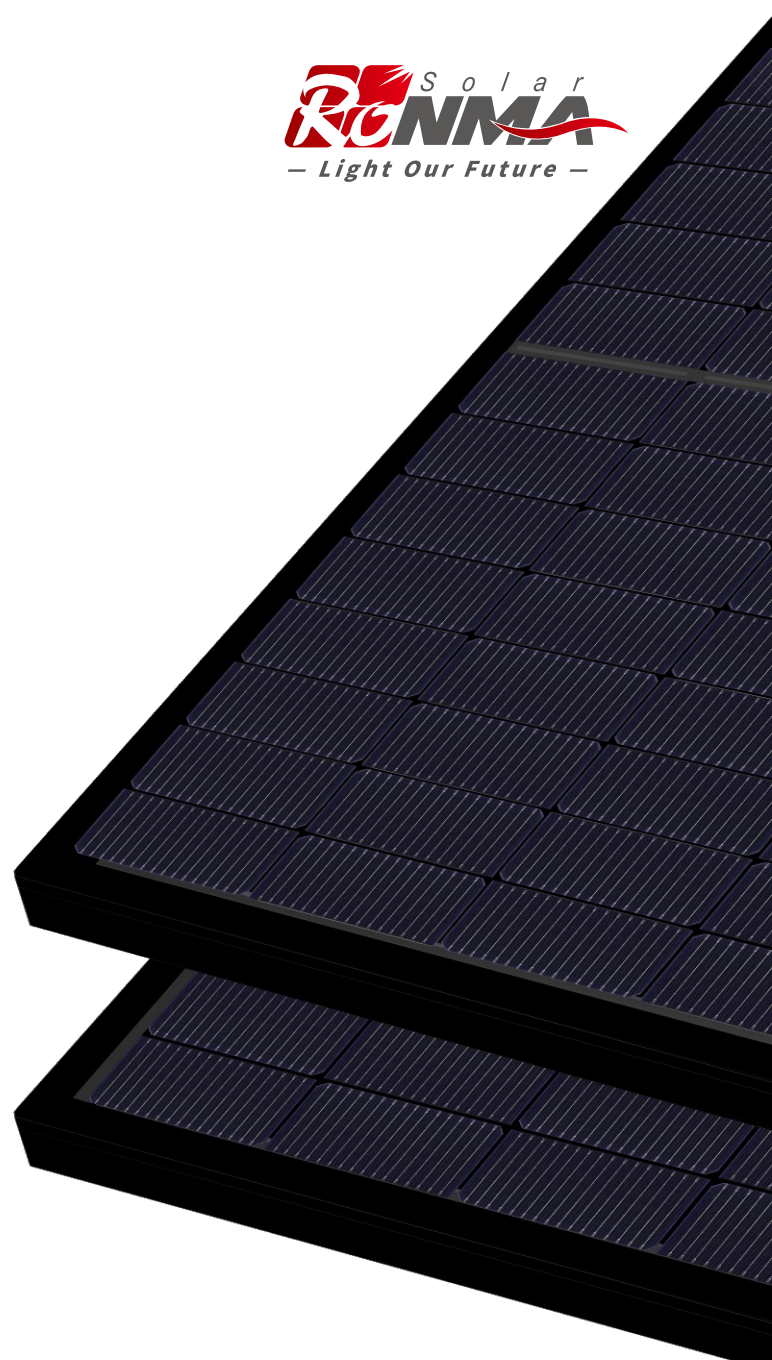
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

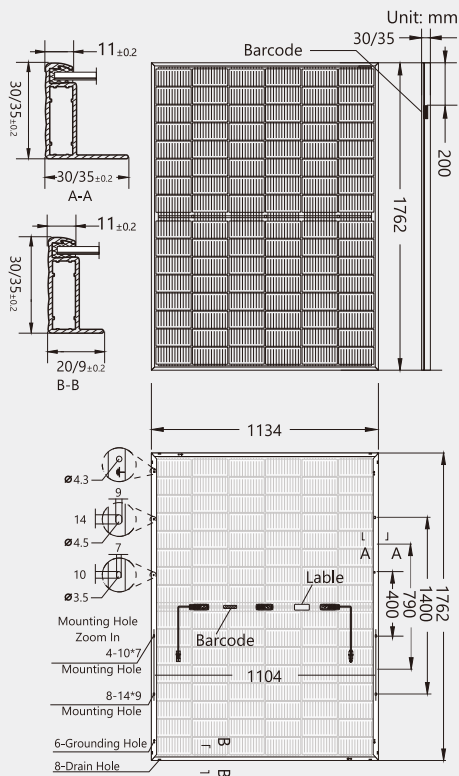


EL Full Inspection

Dual-stage 100% EL Inspection.



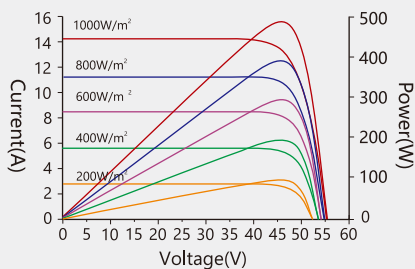
Dimensions of PV Module



RM-460W-182R/96TB

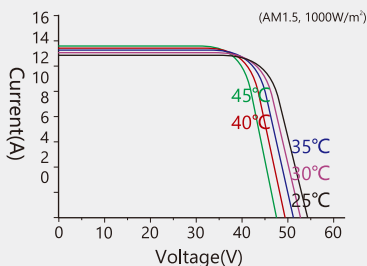
I-V characteristics at different irradiances

Cells temp.=25°C



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	420	425	430	435	440	445	450	455	460
Open Circuit Voltage-Voc(V)	33.95	34.13	34.31	34.49	34.67	34.85	35.03	35.21	35.39
Short Circuit Current-Isc(A)	15.75	15.80	15.85	15.90	15.95	16.00	16.05	16.10	16.15
Max. Power Voltage-Vmpp(V)	29.00	29.18	29.36	29.54	29.72	29.90	30.08	30.26	30.44
Max. Power Current-Impp(A)	14.49	14.57	14.65	14.73	14.81	14.89	14.97	15.04	15.12
Module Efficiency(%)	21.01	21.27	21.52	21.77	22.02	22.27	22.52	22.77	23.02
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)	464.0	469.2	474.8	480.3	485.9	491.6	497.2	502.3	508.0
Open Circuit Voltage-Voc(V)	34.15	34.33	34.51	34.69	34.87	35.05	35.23	35.41	35.59
Short Circuit Current-Isc(A)	17.29	17.34	17.39	17.45	17.51	17.57	17.62	17.67	17.73
Max. Power Voltage-Vmpp(V)	29.20	29.38	29.56	29.74	29.92	30.10	30.28	30.46	30.64
Max. Power Current-Impp(A)	15.89	15.97	16.06	16.15	16.24	16.33	16.42	16.49	16.58
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)	1762×1134×30/35								
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	35
Number of Modules Per Pallet	36	31
Packaging Box Dimensions (l×w×h) (mm)	1778×1134×1260	1778×1134×1260
Box Gross Weight (kg)	802	706
Number of Modules Per 40ft (HQ) Container	936	806
Number of Pallets Per 40ft (HQ) Container	26	26

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
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