

SKYMAX^{series}

RM-435-460W-187R/108TB

N-TOPCon Full Black 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)

108 CELL

Mono TOPCon

435-460Wp

Power output

1500V DC

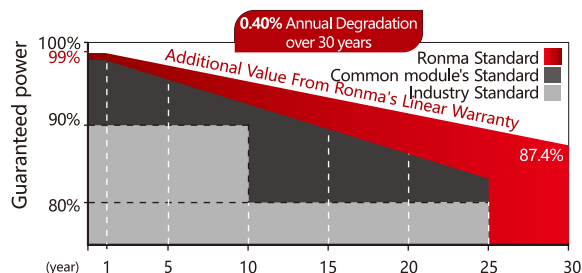
Max. system voltage

23.02%

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.

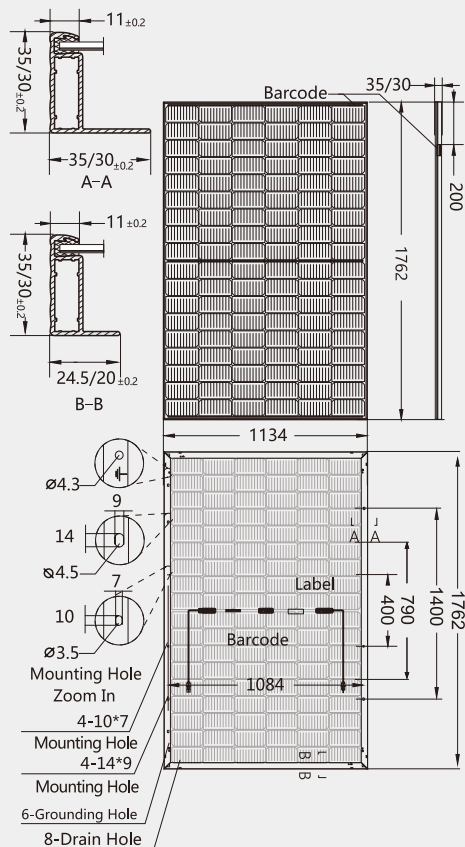


EL Full Inspection

Dual-stage 100% EL Inspection.

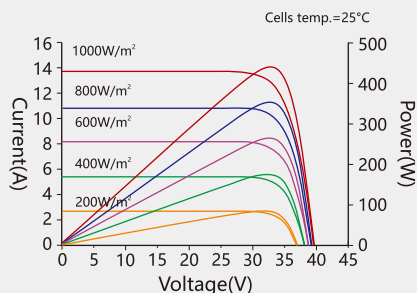
Dimensions of PV Module

Unit: mm

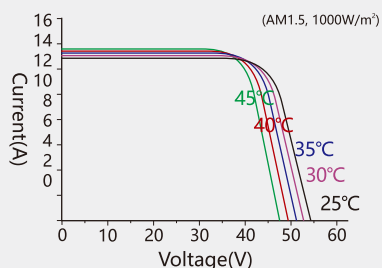


RM-460W-187R-108TB

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	435	440	445	450	455	460
Open Circuit Voltage-Voc(V)	39.20	39.40	39.60	39.80	40.00	40.20
Short Circuit Current-Isc(A)	13.83	13.90	13.97	14.04	14.11	14.18
Max. Power Voltage-Vmpp(V)	32.64	32.84	33.04	33.24	33.44	33.64
Max. Power Current-Impp(A)	13.33	13.40	13.47	13.54	13.61	13.68
Module Efficiency(%)	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)	480.5	485.7	491.3	496.9	502.3	508.0
Open Circuit Voltage-Voc(V)	39.40	39.60	39.80	40.00	40.20	40.40
Short Circuit Current-Isc(A)	15.20	15.26	15.34	15.42	15.50	15.58
Max. Power Voltage-Vmpp(V)	32.84	33.04	33.24	33.44	33.64	33.84
Max. Power Current-Impp(A)	14.63	14.70	14.78	14.86	14.93	15.01
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	108pcs
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)	1762×1134×35/30mm
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)	35	30
Number of Modules Per Pallet	31	36
Packaging Box Dimensions (l×w×h) (mm)	1800×1140×1250	1800×1140×1250
Box Gross Weight (kg)	808	936
Number of Modules Per 40ft (HQ) Container	806	936
Number of Pallets Per 40ft (HQ) Container	26	26

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT
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