

SKYMAX^{series}

RM-425-450W-182M/108TB

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)

108 CELL **425-450Wp**

Mono TOPCon

Power output

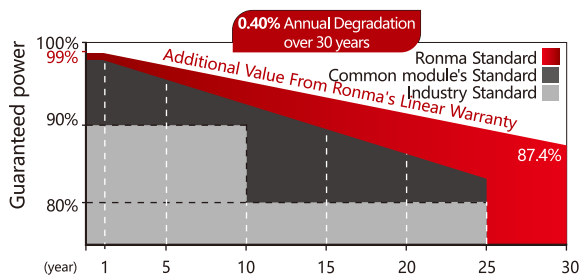
1500V DC **22.52%**

Max syst.em voltage

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

PID Resistance

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

IEC61215/IEC61730/IEC61701/IEC62716/WEEE De93315506



Low-light Performance

Excellent performance in low light.



Durability Against Extreme Environmental Conditions

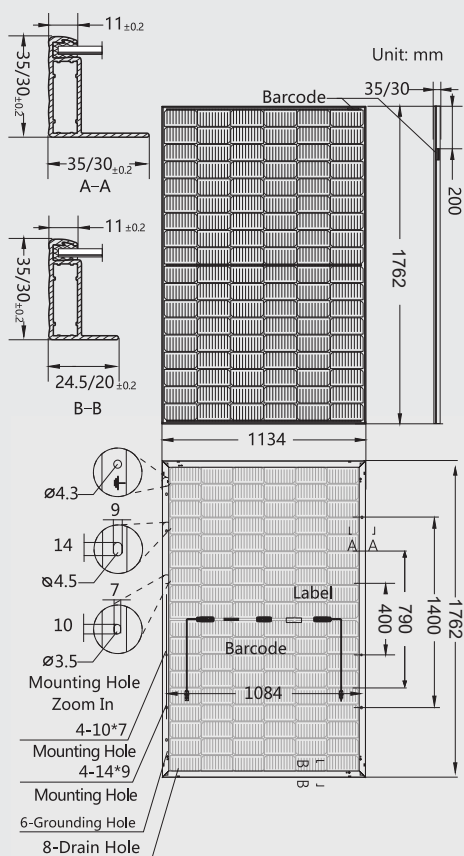
High salt mist and ammonia resistance certified by TUV NORD.



EL Full Inspection

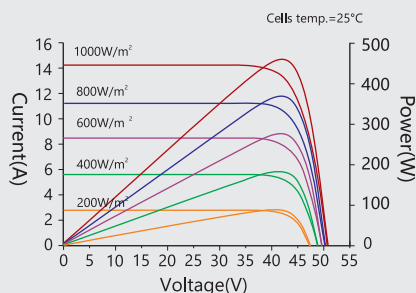
Dual-stage 100% EL Inspection.

Dimensions of PV Module

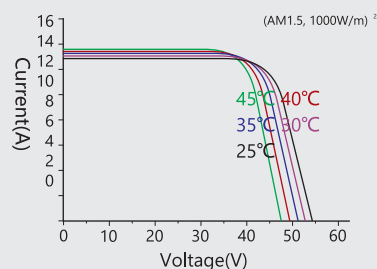


RM-450W-182M/108TB

I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	425	430	435	440	445	450
Open Circuit Voltage-Voc(V)	39.04	39.18	39.35	39.52	39.69	39.86
Short Circuit Current-Isc(A)	13.59	13.64	13.70	13.76	13.82	13.88
Max. Power Voltage-Vmpp(V)	33.15	33.34	33.52	33.73	33.91	34.09
Max. Power Current-Impp(A)	12.83	12.90	12.98	13.05	13.12	13.19
Module Efficiency(%)	21.27	21.52	21.77	22.02	22.27	22.52
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	φIsc=80%±10%, φVoc=100%±3%, φPmax=80%±10%					

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

SPECIFICATIONS(BNPI)

Rated Power in Watts-Pmax(Wp)	470.1	475.4	480.7	486.1	491.5	497.0
Open Circuit Voltage-Voc(V)	40.16	40.39	40.61	40.84	41.07	41.29
Short Circuit Current-Isc(A)	14.75	14.83	14.92	15.00	15.08	15.17
Max. Power Voltage-Vmpp(V)	33.14	33.33	33.51	33.70	33.89	34.08
Max. Power Current-Impp(A)	14.18	14.26	14.34	14.42	14.50	14.58
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	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)	1762×1134×35/30
Weight(kg)	25.5
Cables/connectors	4.0mm ² , 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)	1790×1120×1260	1790×1120×1260
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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