

SKYMAX SERIES

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

N-TOPCon

Full Black Bifacial Monocrystalline Module

MANUFACTURED BY RONMA SOLAR.

1762×1134×35/30

Dimensions (mm)

108 CELL

Dimensions (mm)

1500V DC

Max. system voltage

182×91

Cell size (mm)

425-450Wp

Power output

22.52%

Max. efficiency



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.



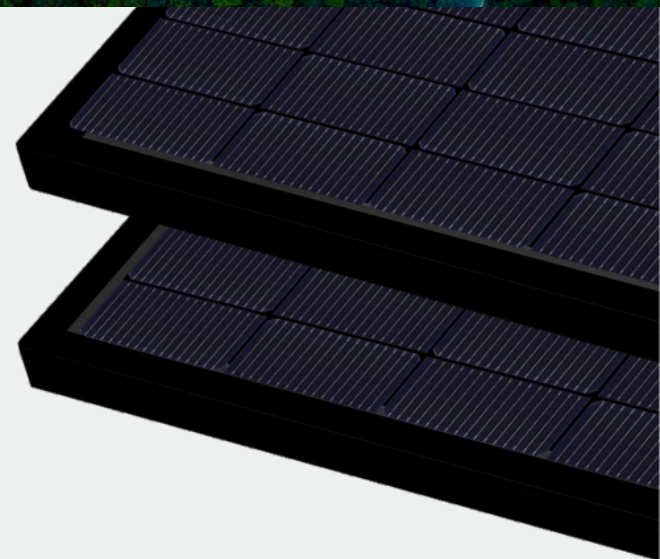
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

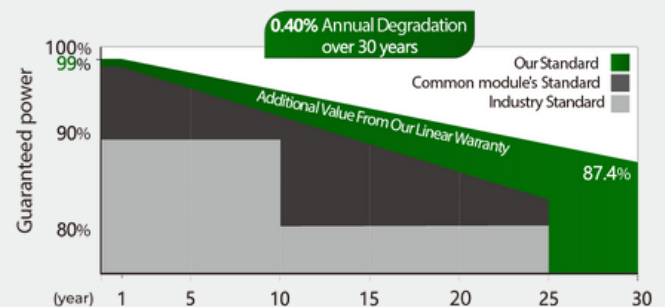


EL Full Inspection

Dual-stage 100% EL Inspection.



Linear Performance Warranty



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

Product and Systems Certificates

IEC61215/IEC61730/IEC61701/IEC62716/WEEE De93315506



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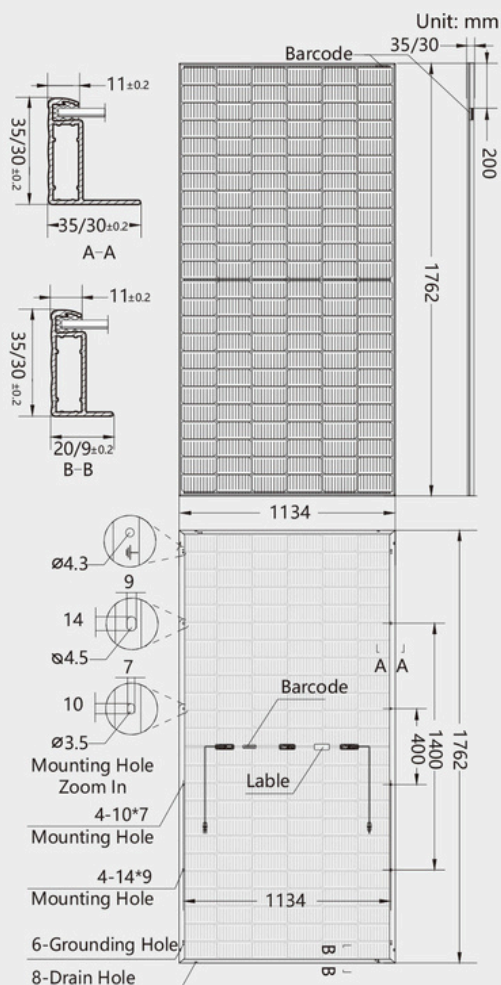
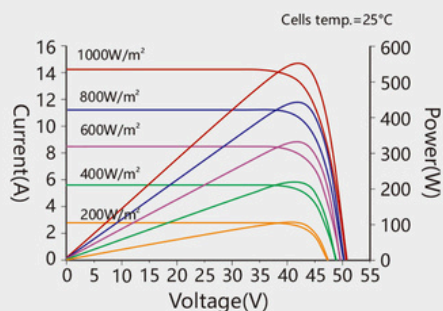
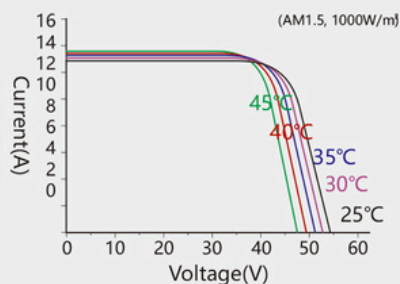
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Dimensions of PV Module


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)	39.74	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	80±5%					

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

WORKING CHARACTERISTICS (NOCT*)

Rated Power in Watts-Pmax (Wp)	317	320	324	328	331
Open Circuit Voltage-Voc (V)	36.85	36.98	37.14	37.30	37.47
Short Circuit Current-Isc (A)	10.98	11.02	11.07	11.12	1.17
Max. Power Voltage-Vmpp (V)	31.03	31.21	31.38	31.58	31.74
Max. Power Current-Impp (A)	10.21	10.27	10.33	10.38	10.44
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Electrical characteristics with different rear side power gain

	Pmax(Wp)	Voc/V	Isc/A	Vmpp/V	Impp/A
5%	472	41.09	14.49	33.88	13.95
10%	495	41.09	15.18	33.88	14.62

The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle, etc.) and albedo of the ground.

MECHANICAL CHARACTERISTICS

Number of cells	108pcs	Type of frame	Anodized Aluminum Alloy
Size of cell (mm)	182×91	Size of module (mm)	1762×1134×35/30
Type of cell	N-TOPCon Mono	Weight (kg)	25.5
Thickness of glass (mm)	2.0	Cables/connectors	4.0mm², MC4 compatible
Junction box	IP68, 1500V DC, 3 Diodes	Length of Cable	+300mm/-200mm (connector inc.)

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	2026	26

Notes: Read safety and installation instructions before using the product. The data provided in this data sheet are subject to change without notice.