

series
SKYMAX
RM-420-450W-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.

1722×1134×35/30

Dimensions (mm)

108 CELL

Mono TOPCon

420-450Wp

Power output

1500V DC

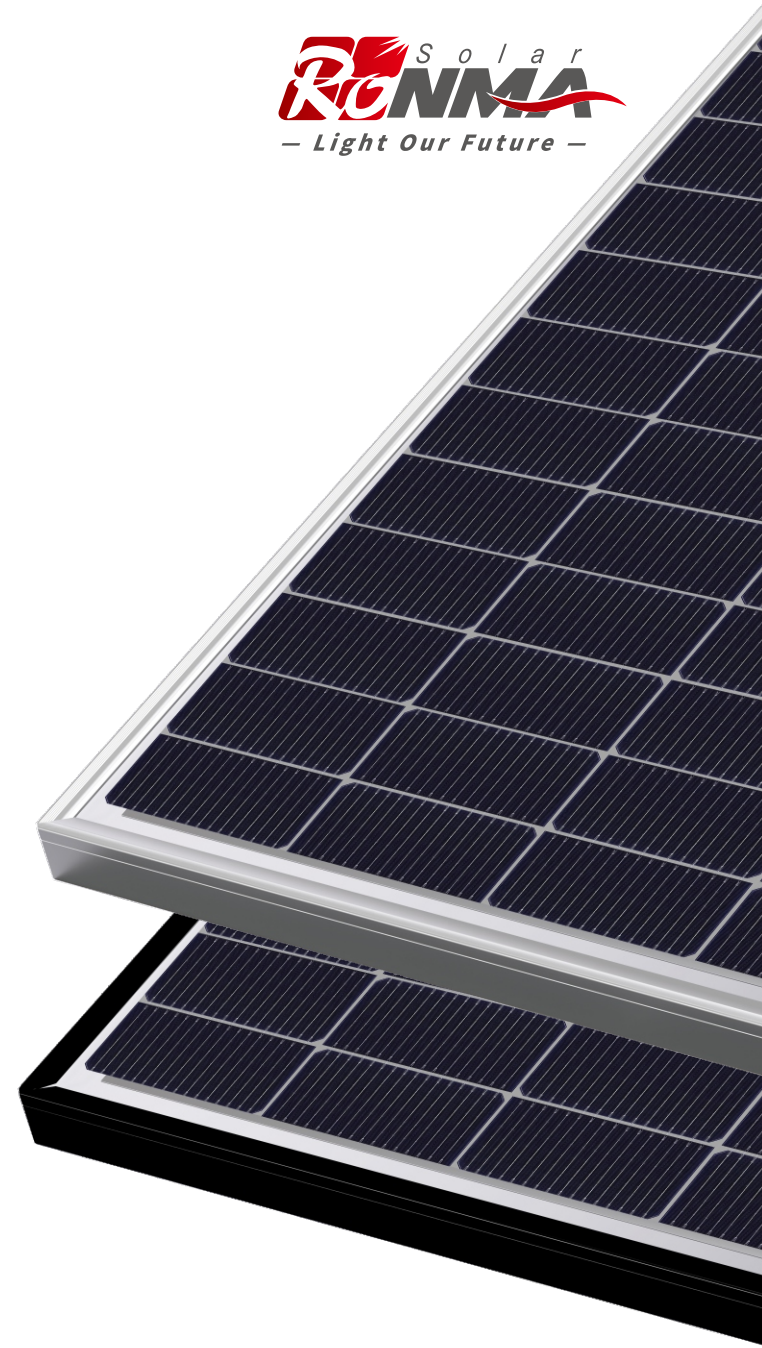
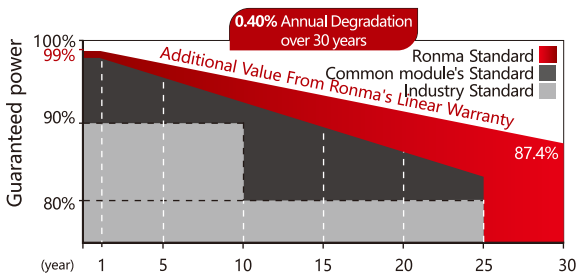
Max. system voltage

23.04%

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.

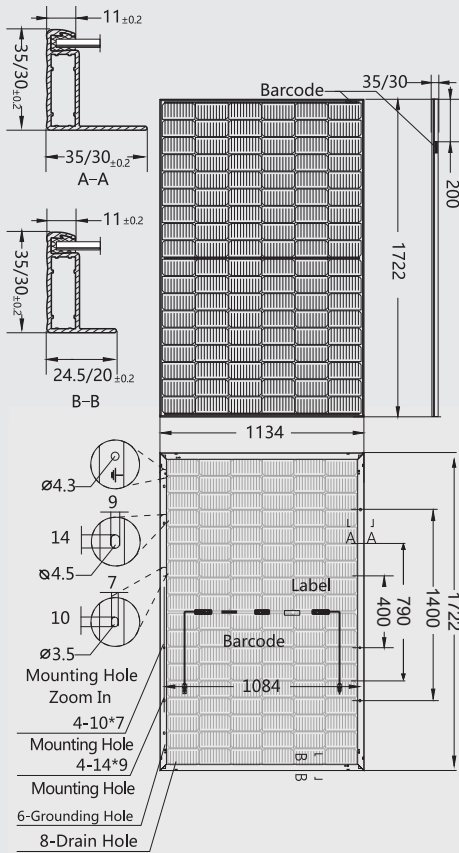


EL Full Inspection

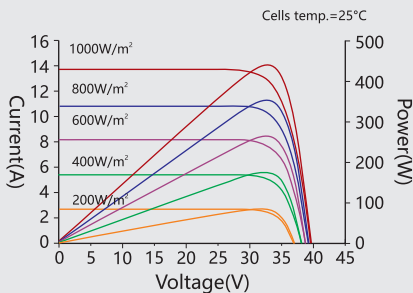
Dual-stage 100% EL Inspection.

Dimensions of PV Module

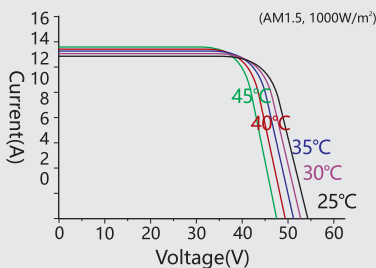
Unit: mm



RM-450W-182M/108TB I-V characteristics at different irradianations



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Rated Power in Watts-Pmax(Wp)	420	425	430	435	440	445	450
Open Circuit Voltage-Voc(V)	39.74	39.96	40.19	40.41	40.64	40.87	41.09
Short Circuit Current-Isc(A)	13.35	13.42	13.50	13.58	13.65	13.73	13.80
Max. Power Voltage-Vmpp(V)	32.76	32.94	33.13	33.31	33.50	33.69	33.88
Max. Power Current-Impp(A)	12.85	12.92	12.99	13.07	13.14	13.21	13.29
Module Efficiency(%)	21.50	21.76	22.02	22.28	22.53	22.79	23.04
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	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)	464.9	470.1	475.4	480.7	486.1	491.5	497.0
Open Circuit Voltage-Voc(V)	39.94	40.16	40.39	40.61	40.84	41.07	41.29
Short Circuit Current-Isc(A)	14.67	14.75	14.83	14.92	15.00	15.08	15.17
Max. Power Voltage-Vmpp(V)	32.96	33.14	33.33	33.51	33.70	33.89	34.08
Max. Power Current-Impp(A)	14.10	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)	1722×1134×35/30
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)	1750×1120×1260	1750×1120×1260
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
©2021 Ronma Solar. All rights reserved. Specifications included in this datasheet are subject to change without notice.

