

SKYMAX SERIES

RM - 450W - 182M/108T

N-TOPCon

Bifacial Monocrystalline Module

MANUFACTURED BY RONMA SOLAR.

1722×1134×35/30

Dimensions (mm)

108 CELL

Dimensions (mm)

1500V DC

Max. system voltage

182×91

Cell size (mm)

450Wp

Power output

23.04%

Max. efficiency

Light Redirecting Film

Light Redirecting Film technology ensure the bifaciality and reliability of the module, effectively increasing the power performance.

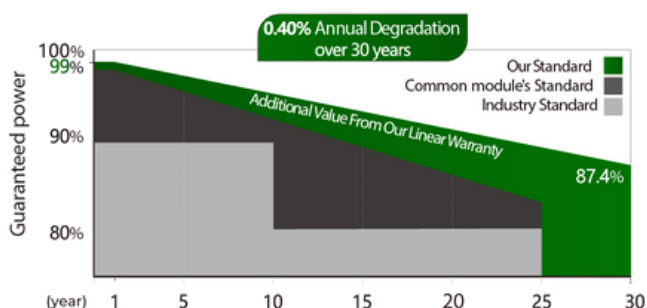
Non-Destructive (NDC) Cutting Tech

The cutting surface is smooth, avoiding the loss of the cells' mechanical structure and ensuring sufficient current, resulting in a 0.4~0.6% increase in efficiency.

Junction Box Laser Welding Tech

The laser's high energy density and precise positioning control allow it to accurately manage the junction box's welding position and timing, ensuring high-quality welding and reliability, thereby enhancing module safety.

Linear Performance Warranty

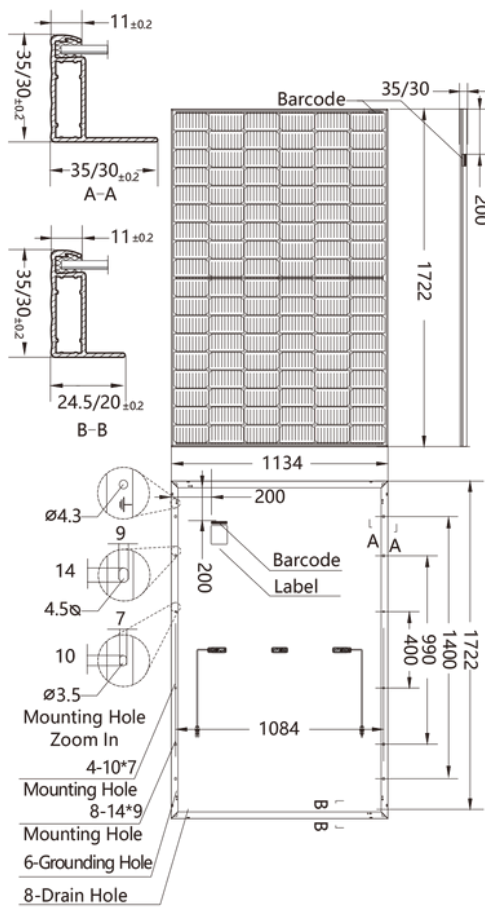


15-year product warranty / 30-year linear power warranty

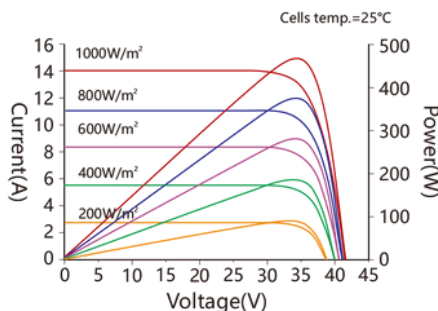


Dimensions of PV Module

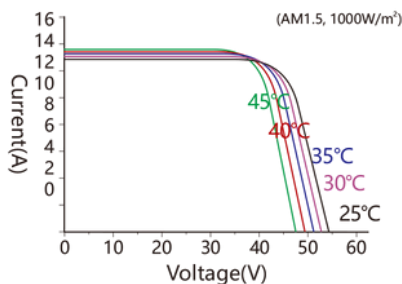
Unit: mm



RM-435W-182M/108T
I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	RM-450W-182M/108T
Rated Power in Watts-Pmax (Wp)	450
Open Circuit Voltage-Voc (V)	41.09
Short Circuit Current-Isc (A)	13.80
Max. Power Voltage-Vmpp (V)	33.88
Max. Power Current-Impp (A)	13.29
Module Efficiency (%)	23.04
Maximum system voltage	1500V DC
Fuse Rating(A)	25
Temperature coefficient Pmax	-0.30%/°C
Temperature coefficient Isc	0.046%/°C
Temperature coefficient Voc	-0.25%/°C

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

WORKING CHARACTERISTICS (NOCT*)

Model Number	RM-430W-182M/108T
Rated Power in Watts-Pmax (Wp)	323
Open Circuit Voltage-Voc (V)	37.20
Short Circuit Current-Isc (A)	11.02
Max. Power Voltage-Vmpp (V)	30.30
Max. Power Current-Impp (A)	10.66
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

MECHANICAL CHARACTERISTICS

Number of cells	108pcs
Size of cell (mm)	182×91
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	4.0mm², MC4 compatible
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)	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

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

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