

SKYMAX SERIES

RM - 440W - 182M/108TB

N-TOPCon

Full Black 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)

440Wp

Power output

22.53%

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.



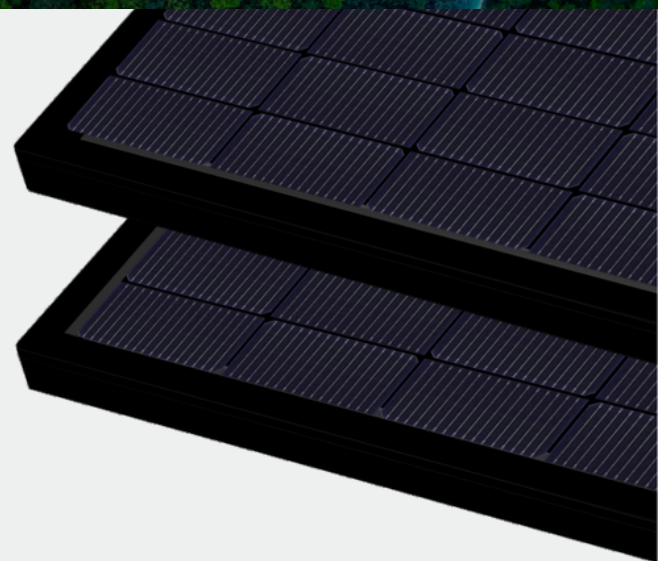
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

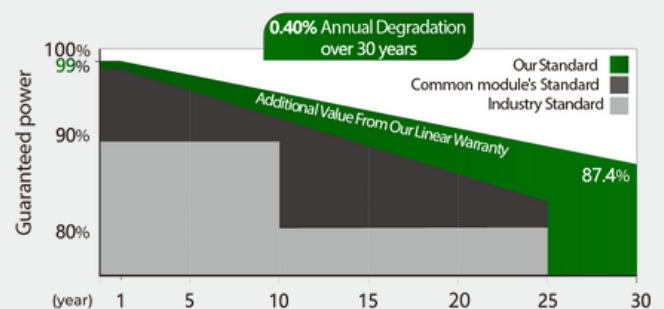


EL Full Inspection

Dual-stage 100% EL Inspection.



Linear Performance Warranty



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

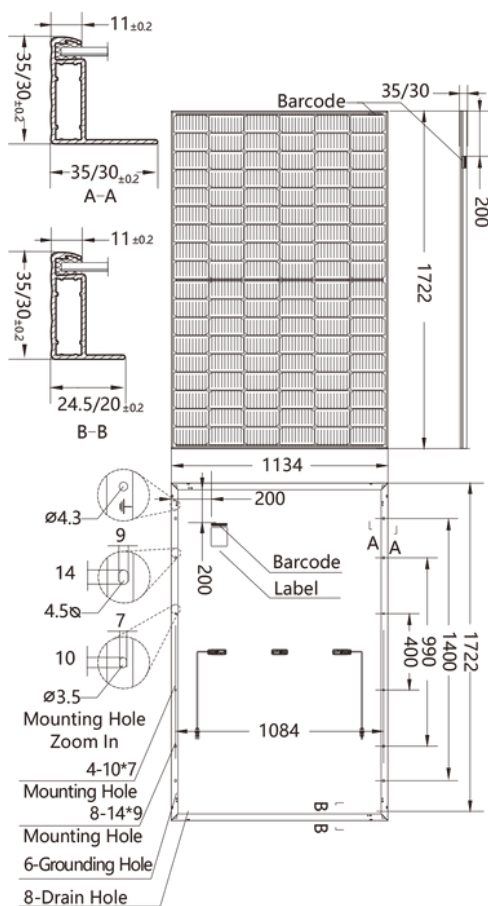
Product and Systems Certificates

IEC61215/IEC61730/IEC61701/IEC62716/WEEE De93315506

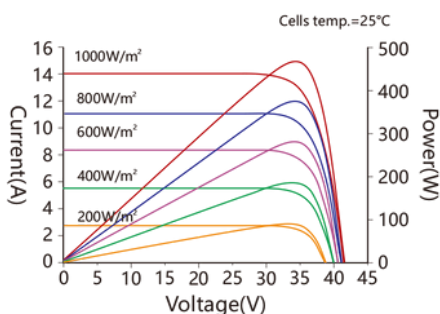


Dimensions of PV Module

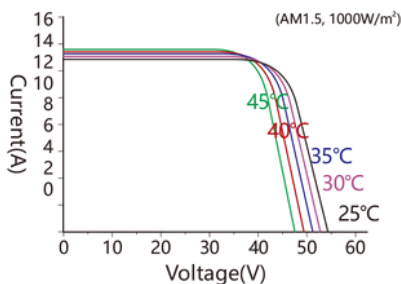
Unit: mm



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



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	RM-440W-182M/108TB
Rated Power in Watts-Pmax (Wp)	440
Open Circuit Voltage-Voc (V)	40.64
Short Circuit Current-Isc (A)	13.65
Max. Power Voltage-Vmpp (V)	33.50
Max. Power Current-Impp (A)	13.14
Module Efficiency (%)	22.53
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/108TB
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-Imp (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.