

SKYMAX SERIES

RM - 490W - 182M/144TB

N-TOPCon

Bifacial Monocrystalline Module

MANUFACTURED BY RONMA SOLAR.

2279×1134×35/30

Dimensions (mm)

144 CELL

Dimensions (mm)

1500V DC

Max. system voltage

182×91

Cell size (mm)

490Wp

Power output

19.08%

Max. efficiency

Light Redirecting Film

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

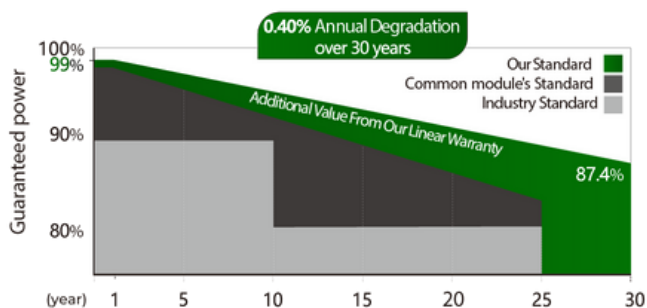
Non-Destructive (NDC) Cutting Tech

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.

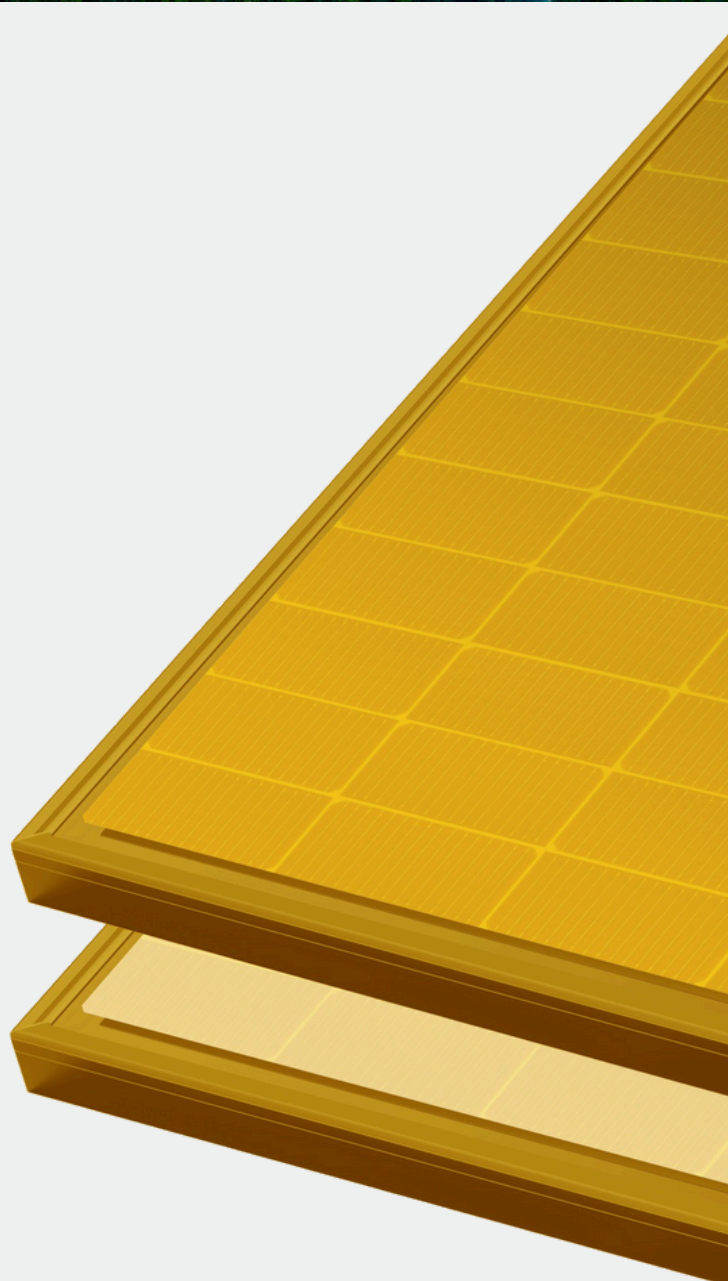
Junction Box Laser Welding Tech

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



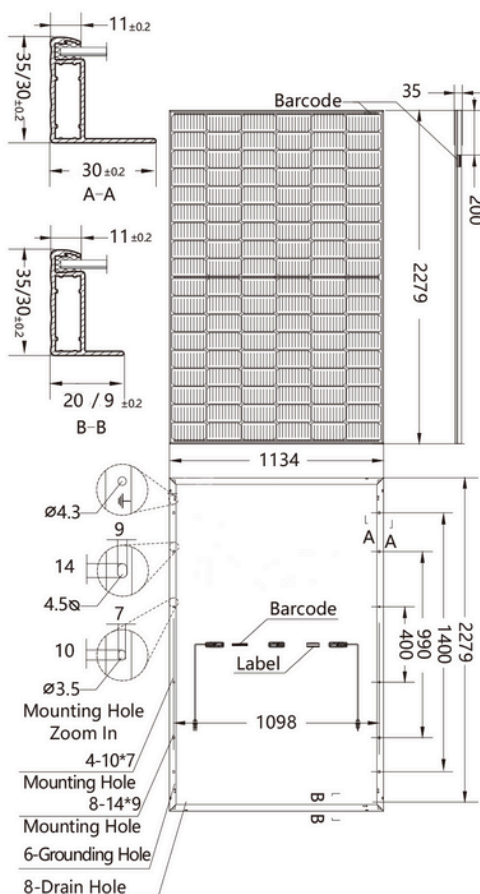
15-year product warranty / 30-year linear power warranty



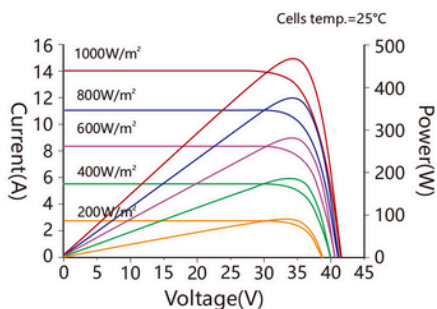
Also available in RED.

Dimensions of PV Module

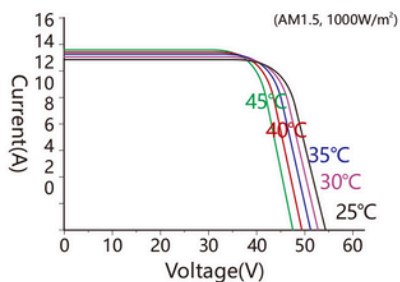
Unit: mm



RM-480W-182M/144T
I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL CHARACTERISTICS (STC*)

Model Number	RM-490W-182M/144TB
Rated Power in Watts-Pmax (Wp)	490
Open Circuit Voltage-Voc (V)	44.65
Short Circuit Current-Isc (A)	10.99
Max. Power Voltage-Vmpp (V)	51.79
Max. Power Current-Impp (A)	11.84
Module Efficiency (%)	19.08
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	

MECHANICAL CHARACTERISTICS

Number of cells	144pcs
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)	2279×1134×35
Weight (kg)	32
Cables/connectors	4.0mm ² , 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)	2300×1120×1260	2300×1120×1260
Box Gross Weight (kg)	1020	1180
Number of Modules Per 40ft (HQ) Container	620	720
Number of Pallets Per 40ft (HQ) Container	20	20

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