Solar RONMA
— Light Our Future —

series
# SKYMAX
## RM-600-630W-182R/132TB

## N-TOPCon
## Bifacial Monocrystalline Module

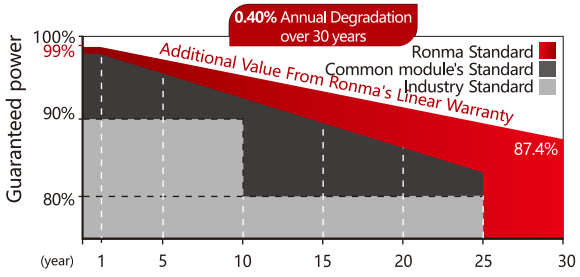
- Light Redirecting Film: Ronma TOPCON modules use gap Light Redirecting Film technology to ensure the bifaciality and reliability of the module, meanwhile effectively increasing the power performence.
- No-Destructive Cutting: Ronma cells-cutting is using NDC (non-destructive) cutting technology, the cutting surface is smooth, which avoids the loss of the mechanical structure of the cells and ensures sufficient current.
- Junction Box Laser Welding Technology: Ronma uses the high energy density and precise positioning control capabilities of the laser to achieve high-quality welding. It can accurately control the junction box welding position and welding time to ensure welding quality and reliability, to improve module safety.



**2382×1134×35/30**
Dimensions (mm)

| | |
|---|---|
| **132 CELL** | **600-630Wp** |
| Mono TOPCon | Power output |
| **1500V DC** | **23.32%** |
| Max. system voltage | 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 TUV NORD.

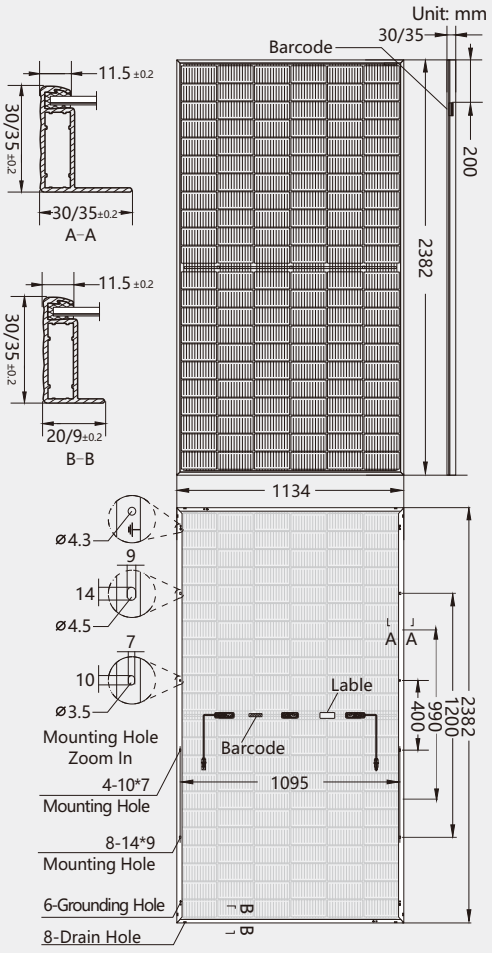
### EL Full Inspection
Dual-stage 100% EL Inspection.

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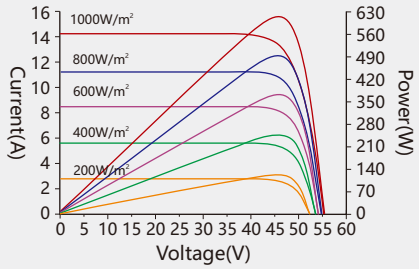
## Dimensions of PV Module



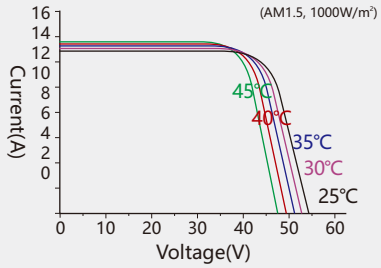

## RM-630W-182M/132TB

**I-V characteristics at different irradiations**

Cells temp.=25°C




**I-V characteristics at different temperatures**




## ELECTRICAL CHARACTERISTICS (STC*)

| Rated Power in Watts-Pmax(Wp) | 600 | 605 | 610 | 615 | 620 | 625 | 630 |
|---|---|---|---|---|---|---|---|
| Open Circuit Voltage-Voc(V) | 48.40 | 48.70 | 49.00 | 49.30 | 49.60 | 49.80 | 50.30 |
| Short Circuit Current-Isc(A) | 15.80 | 15.83 | 15.86 | 15.89 | 15.91 | 15.93 | 15.94 |
| Max. Power Voltage-Vmpp(V) | 40.30 | 40.50 | 40.80 | 41.10 | 41.40 | 41.60 | 42.00 |
| Max. Power Current-Impp(A) | 14.91 | 14.94 | 14.96 | 14.98 | 14.99 | 15.00 | 15.01 |
| Module Efficiency(%) | 22.20 | 22.40 | 22.60 | 22.80 | 23.00 | 23.10 | 23.32 |
| Maximum system voltage | 1500V DC | | | | | | |
| Fuse Rating(A) | 30 | | | | | | |
| Temperature coefficient Pmax | -0.30%/℃ | | | | | | |
| Temperature coefficient Isc | 0.046%/℃ | | | | | | |
| Temperature coefficient Voc | -0.25%/℃ | | | | | | |
| Refer. Bifacial Factor | 80±5% | | | | | | |

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

## WORKING CHARACTERISTICS (NOCT*)

| Rated Power in Watts-Pmax(Wp) | 457 | 461 | 465 | 469 | 473 |
|---|---|---|---|---|---|
| Open Circuit Voltage-Voc(V) | 37.75 | 37.92 | 38.09 | 38.26 | 38.44 |
| Short Circuit Current-Isc(A) | 12.11 | 12.16 | 12.21 | 12.26 | 12.31 |
| Max. Power Voltage-Vmpp(V) | 46.03 | 46.22 | 46.41 | 46.60 | 46.70 |
| Max. Power Current-Impp(A) | 12.86 | 12.92 | 12.98 | 13.04 | 13.10 |
| Power tolerance | 0~+3% | | | | |
| NOCT | 45℃±2℃ | | | | |
| Operating Temperature | -40℃~85℃ | | | | |

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

### Electrical characteristics with different rear side power gain

| | Pmax/W | Voc/V | Isc/A | Vmpp/V | Impp/A |
|---|---|---|---|---|---|
| 5% | 661 | 50.30 | 16.74 | 42.00 | 15.76 |
| 10% | 693 | 50.30 | 17.53 | 42.00 | 16.51 |

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 | 132pcs | Type of frame | Anodized Aluminum Alloy |
|---|---|---|---|
| Type of cell | N-TOPCon Mono | Size of module(mm) | 2382×1134×35/30 |
| Thickness of glass(mm) | 2.0 | Weight(kg) | 33 |
| Junction box | IP68, 1500V DC, 3 Diodes | Cables/connectors | 4.0mm², MC4 compatible |
| Length of Cable | +300mm/-200mm | Length can be customized | (connector included) |

## PACKAGING CONFIGURATION

| Height of Modules (mm) | 35 | 30 |
|---|---|---|
| Number of Modules Per Pallet | 31 | 36 |
| Packaging Box Dimensions (l×w×h) (mm) | 2485×1120×1260 | 1260×1120×2595 |
| Box Gross Weight (kg) | 955 | 1225 |
| Number of Modules Per 40ft (HQ) Container | 496 | 720 |
| Number of Pallets Per 40ft (HQ) Container | 20 | 20 |

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT

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Solar RONMA — Light Our Future —

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