

series  
**SKYMAX**  
 RM-595W-182M/144TB

**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 performance.
- 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.

**2279×1134×35/30 182×91**

Dimensions (mm) Cell size (mm)

**144 CELL 560-595Wp**

Mono TOPCon Power output

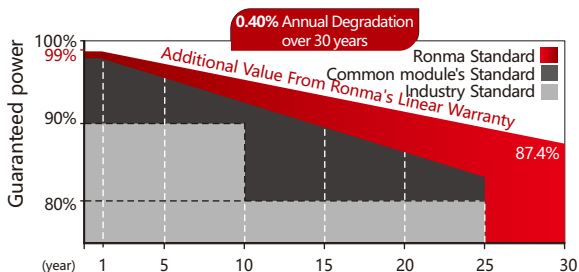
**1500V DC 23.02%**

Max. system voltage Max. efficiency

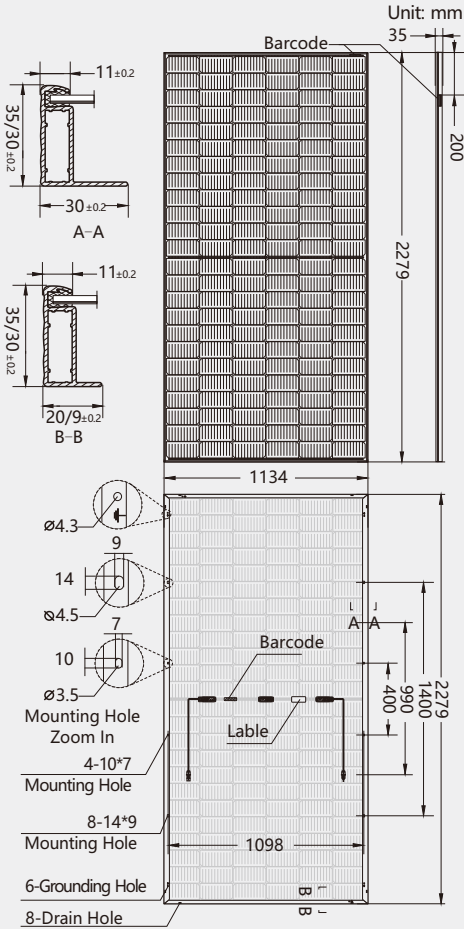


**LINEAR PERFORMANCE WARRANTY**

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

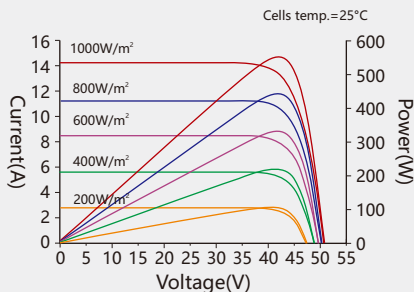


### Dimensions of PV Module

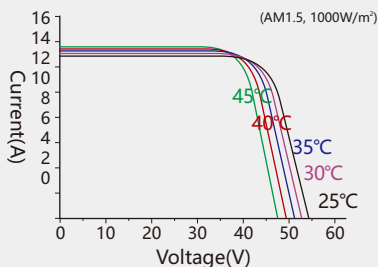


### RM-580W-182M/144TB

I-V characteristics at different irradiances



### I-V characteristics at different temperatures



### ELECTRICAL CHARACTERISTICS (STC\*)

Rated Power in Watts-Pmax(Wp)	560	565	570	575	580	585	590	595
Open Circuit Voltage-Voc(V)	50.67	50.87	51.07	51.27	51.47	51.50	51.70	51.90
Short Circuit Current-Isc(A)	14.13	14.19	14.25	14.31	14.37	14.36	14.45	14.53
Max. Power Voltage-Vmpp(V)	41.95	42.14	42.29	42.44	42.59	43.27	43.45	43.61
Max. Power Current-Impp(A)	13.35	13.41	13.48	13.55	13.62	13.52	13.58	13.64
Module Efficiency(%)	21.67	21.86	22.06	22.25	22.44	22.6	22.8	23.02
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/m<sup>2</sup>, module temperature 25°C, AM=1.5

### WORKING CHARACTERISTICS (NOCT\*)

Rated Power in Watts-Pmax(Wp)	421	425	429	432	436
Open Circuit Voltage-Voc(V)	48.13	48.32	48.51	48.70	48.89
Short Circuit Current-Isc(A)	11.41	11.46	11.50	11.55	11.60
Max. Power Voltage-Vmpp(V)	39.39	39.52	39.65	39.78	39.87
Max. Power Current-Impp(A)	10.69	10.75	10.81	10.87	10.94
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

\*NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### Electrical characteristics with different rear side power gain

5%	Pmax(Wp)	588	593	599	604	609
	Efficiency(%)	22.77	22.97	23.17	23.37	23.57
15%	Pmax(Wp)	644	650	656	661	667
	Efficiency(%)	24.93	25.15	25.37	25.60	25.82
25%	Pmax(Wp)	700	706	713	719	725
	Efficiency(%)	27.10	27.34	27.58	27.82	28.07

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	144pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182×91	Size of module(mm)	2279×1134×35
Type of cell	N-TOPCon Mono	Weight(kg)	32
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm <sup>2</sup> , MC4 compatible
Junction box	IP68, 1500V DC, 3 Diodes	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)	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

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT  
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