

# ATTMAX<sup>series</sup> RM-600-630W-182R/132TB



## N-TOPCon Bifacial Monocrystalline Module

- Light Redirecting Film: ATT 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: ATT 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: ATT 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**

Mono TOPCon

**600-630Wp**

Power output

**1500V DC**

Max. system voltage

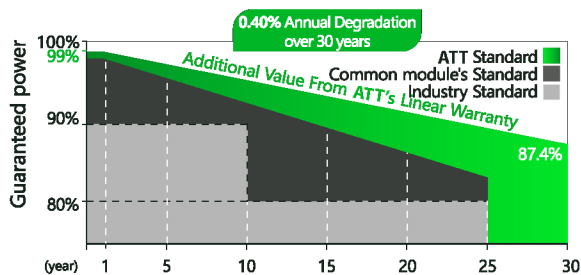
**23.32%**

Max. efficiency



### LINEAR PERFORMANCE WARRANTY

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



#### 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

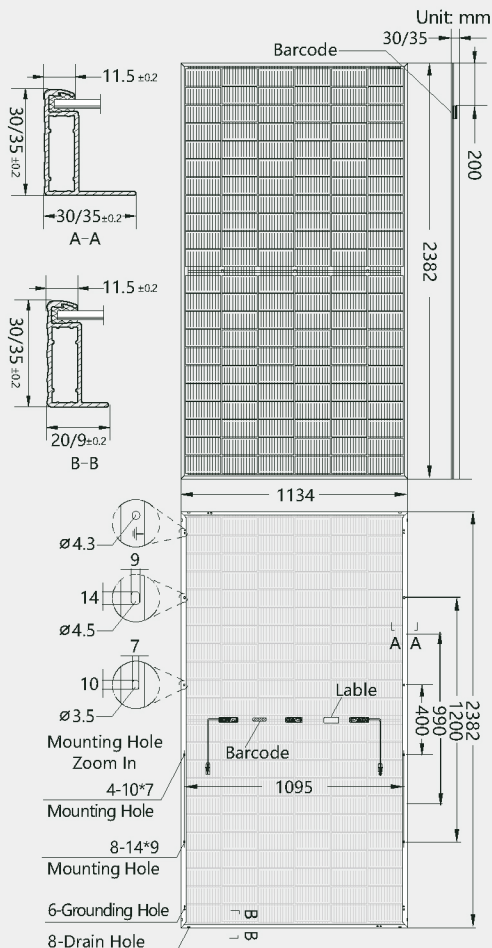
High salt mist and ammonia resistance certified by TUV NORD.



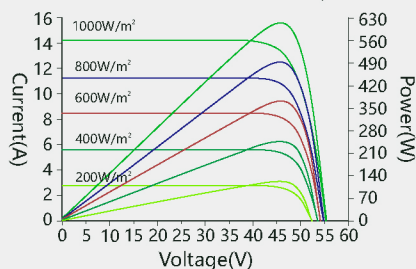
#### EL Full Inspection

Dual-stage 100% EL Inspection.

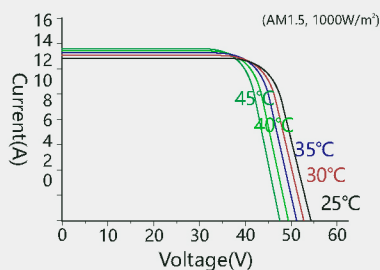
### Dimensions of PV Module



**RM-630W-182M/132TB**  
I-V characteristics at different irradiances  
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%/°C						
Temperature coefficient Isc	0.046%/°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)	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°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

	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	4.0mm <sup>2</sup> , 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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