

600-630-W-182R / 132TB

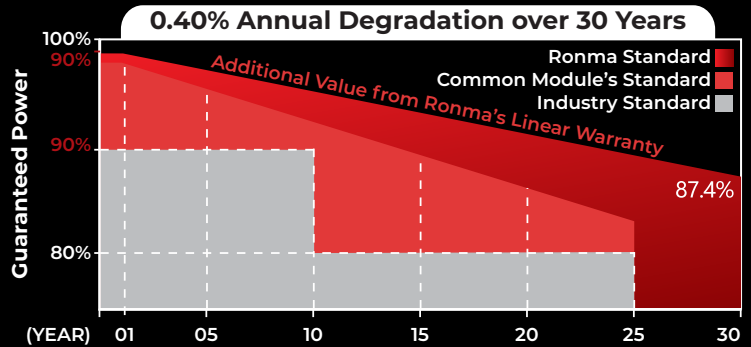
N-TOPCon: Bifacial Monocrystalline Module

KEY FEATURES




- ✔ Suitable for Centralized PV Generation
- ✔ Warranty Upgrades
- ✔ High Efficiency and Strong Power Generation
- ✔ Safer Smart Manufacturing
- ✔ Non-Destructive Cutting
- ✔ Junction Box Laser Welding Technology

GENERAL SPECIFICATIONS

Power Output	Cell Type
600-630 WP	132 Cell Mono TOPCon
Max System Voltage	Max Efficiency
1500V DC	23.32%
Dimensions	Annual Degradation
2382×1134×30mm	0.40% over 30 years



PERFORMANCE HIGHLIGHTS

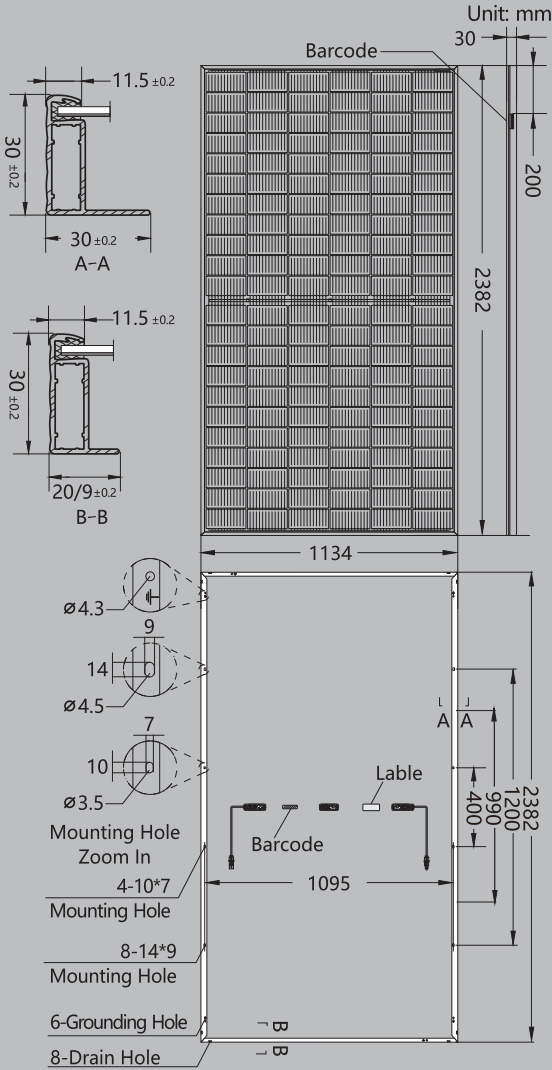
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HIGHER POWER OUTPUT
 Module power increases by 5–25%, resulting in lower LCOE and higher IRR. Positive tolerance: 0 ~ +5W
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MULTI BUSBAR TECHNOLOGY
 Power increases by 2–3% and efficiency increases by 0.4–0.6%.
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PID RESISTANCE
 Excellent Anti-PID performance ensured through optimized manufacturing and material control.

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DURABILITY
 Resistant to extreme environmental conditions including salt mist and ammonia (TÜV NORD certified).
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LOW-LIGHT PERFORMANCE
 Delivers consistent and reliable performance even in low-light conditions.
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EL INSPECTION
 Full dual-stage 100% EL inspection.

IEC61215/IEC61730/IEC61701/IEC62716/WEE De93315506



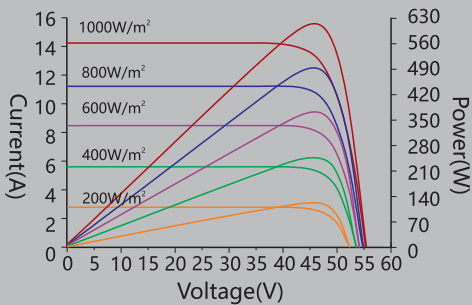
Dimensions of PV Module



RM-630W-182R/132TB

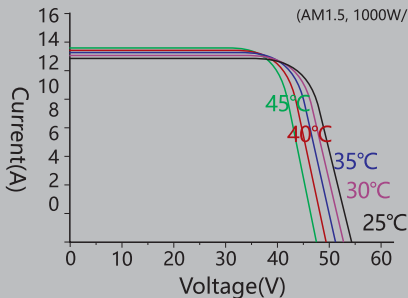
I-V characteristics at different irradiances

Cells temp.=25°C



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



ELECTRICAL CHARACTERISTICS (STC)

Pmax	Voc	Isc	Vmpp	Impp	Efficiency
600	48.40	15.80	40.30	14.91	22.20
605	48.70	15.83	40.50	14.94	22.40
610	49.00	15.86	40.80	14.96	22.60
615	49.30	15.89	41.10	14.98	22.80
620	49.60	15.91	41.40	14.99	23.00
625	49.80	15.93	41.60	15.00	23.10
630	50.30	15.94	42.00	15.01	23.32

SPECIFICATIONS (BNPI)

Rated Power in Watts-Pmax(Wp)	663.3	667.8	674.0	679.8	685.2	688.9	695.9
Open Circuit Voltage-Voc(V)	48.60	48.90	49.20	49.50	49.80	50.20	50.50
Short Circuit Current-Isc(A)	17.37	17.40	17.44	17.47	17.50	17.52	17.53
Max. Power Voltage-Vmpp(V)	40.50	40.70	41.00	41.30	41.60	41.80	42.20
Max. Power Current-Impp(A)	16.38	16.41	16.44	16.46	16.47	16.48	16.49
Power tolerance	0~+3%						
Operating Temperature	-40°C~85°C						

*BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

MECHANICAL CHARACTERISTICS

Number of Cells	132 pcs
Cell Type	N-TOPCon Mono
Glass Thickness	2.0 mm
Junction Box	IP68, 1500V DC, 3 Diodes
Frame	Anodized Aluminum Alloy
Dimensions	2382 × 1134 × 30 mm
Weight	33.5 kg
Connectors	MC4 Compatible
Cable Length	+300 mm / -200 mm

PACKAGING CONFIGURATION

Modules per Pallet	37
Pallets per 40HQ Container	20
Modules per Container	740
Box Dimensions	2386 × 1140 × 1260 mm
Gross Weight	1270 kg