

OS N 25

N-type Bifacial High Efficiency Module

545~555Wp

RN1-24S550B72N16B

- 100 % EL Test to Ensure Error Free Module
- High Conversion Efficiency With High Reliability
- Uniform Electrical Performance
- Excellent Power Generation
- Excellent Anti-PID Performance
- Low Hot Spot Effect
- High Salt Mist Resistance



12 Years Product Warranty

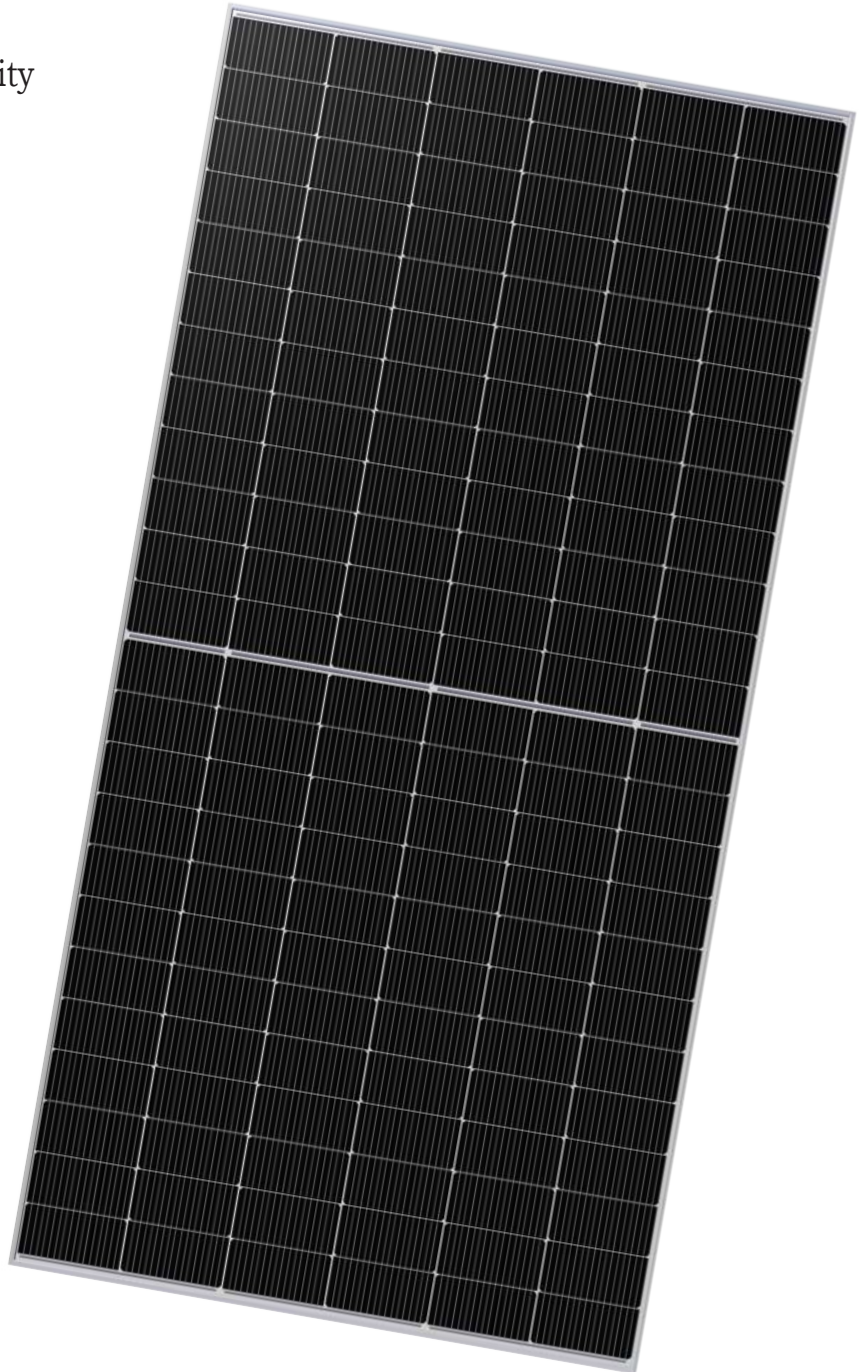
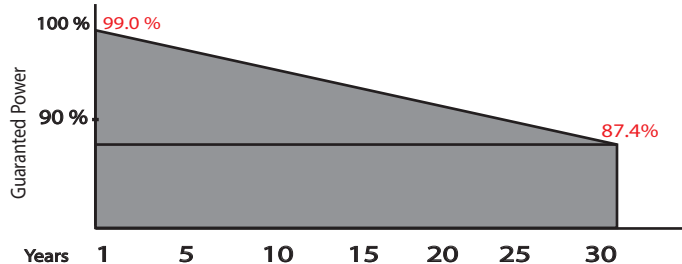


30 Years Linear Power Warranty



1% Degradation for 1st year
 0.40% Annual Degradation Over 30 years.

Linear power performance graph



Complete System and Product Certifications

Made in Bangladesh



IEC 61215, IEC 61730, IEC 61701, IEC 62804, UL 61730
 ISO9001:2015: Quality Management System
 ISO14001:2015: Environmental Management System
 ISO45001:2018: Occupational Health and Safety

Mechanical Characteristics

Cell Type	Mono-crystalline N-type TOPCon, 182x182mm
No. of Cells	144 (6*24)
Junction Box	IP68, 3 Diodes
Cable Cross-section size	4mm ²
Cable Length	± 300mm (Cable length can be customized)
Front Glass	2.0mm (High transmission, low iron tempered glass)
Back Glass	2.0mm (Grid glass)
Encapsulant Material	POE/EVA
Protection Class	Class II
Fire Performance	Class C
Frame	Anodized Aluminium Alloy
Weight	31 kg
Module Dimensions	2278 x 1134 x 30mm

Packaging Configuration

Pallet Dimensions (L*W*H)	2300 x 1115 x 1255 mm
Packaging Configuration	36pcs/pallet, 360pcs/20' & 720pcs/40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	545	550	555
Maximum Power Voltage - Vmp [V]	42.41	42.61	42.81
Maximum Power Current - Imp [A]	12.86	12.92	12.97
Open-circuit Voltage - Voc [V]	51.31	51.52	51.73
Short-circuit Current - Isc [A]	13.43	13.49	13.55
Module Efficiency STC (%)	21.1	21.3	21.49
Power Tolerance	±3%		
Temperature Coefficient of Pmax	-0.29%/°C		
Temperature Coefficient of Voc	-0.25%/°C		
Temperature Coefficient of Isc	0.045%/°C		

*STC: Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

Specifications (NOCT)

Maximum Power - Pmax [Wp]	414	418	422
Maximum Power Voltage - Vmp [V]	39.85	40.05	40.25
Maximum Power Current - Imp [A]	10.39	10.44	10.49
Open-circuit Voltage - Voc [V]	48.23	48.43	48.63
Short-circuit Current - Isc [A]	10.78	10.83	10.88

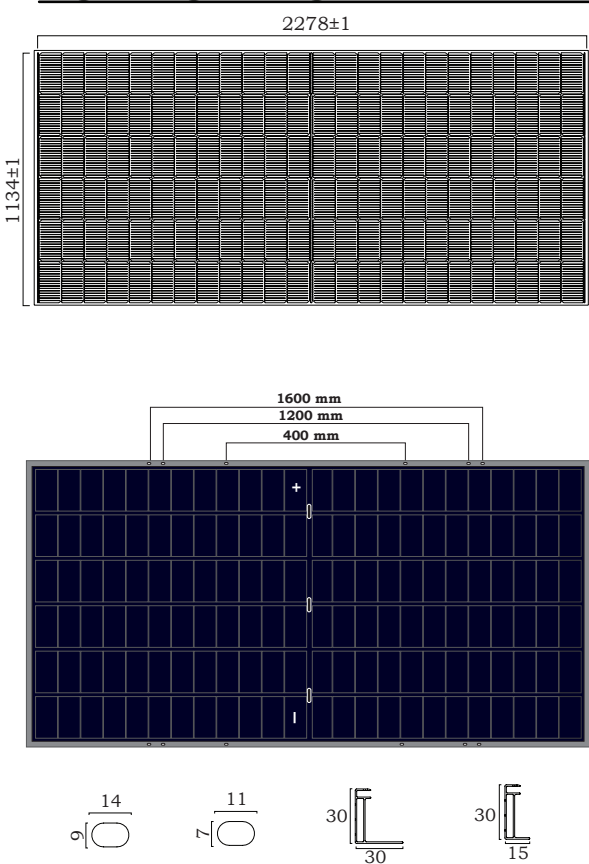
*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Operating Conditions

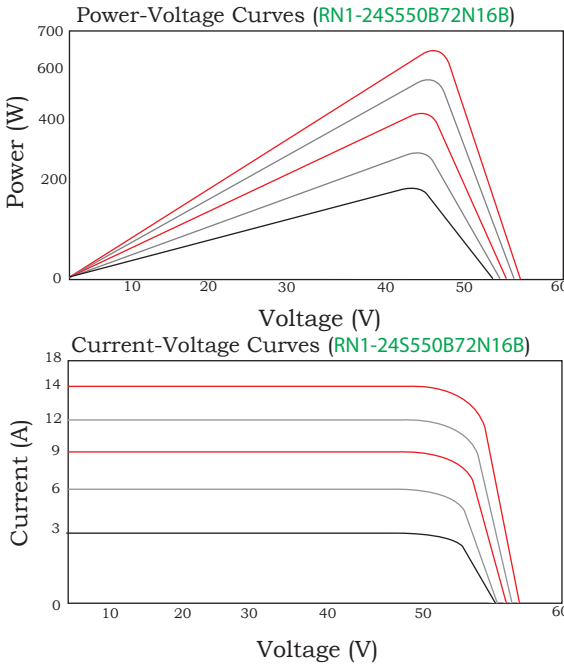
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Operating Temperature	- 40°C~+85°C
Voc and Isc Tolerance	±3%
Front Side Maximum Static Load	5400 Pa
Back Side Maximum Static Load	2400 Pa
NOCT	45±2°C
Bifaciality	80±10%

Remark: Customized frame color and cable length availabe upon request

Engineering Drawings



Electrical Performance



STC: Irradiance 1000W/m²
 Cell Temperature 25°C
 AM=1.5

NOCT: Irradiance 800W/m²
 Ambient Temperature 20°C
 AM=1.5
 Wind Speed 1m/s