

OS P 25

P-type PERC Bifacial High Efficiency Module

390~405Wp

RN1-24S400B54P10B

- 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



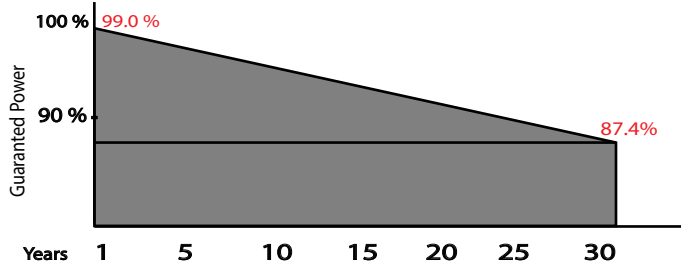
30 Years Linear Power Warranty



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



Linear power performance graph



Complete System and Product Certifications

Made in Bangladesh

TUVNORD



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 P-Type PERC, 182x182mm
No. of Cells	108 (6*18)
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 (Back grid glass)
Encapsulant Material	POE/EVA
Protection Class	Class II
Fire Performance	Class C
Frame	Anodized Aluminium Alloy
Weight	24 kg
Module Dimensions	1722 x 1134 x 30mm

Packaging Configuration

Pallet Dimensions (L*W*H)	1740 x 1115 x 1275 mm
Packaging Configuration	36pcs/pallet, 432pcs/20' & 936pcs/40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	390	395	400	405
Maximum Power Voltage - Vmp [V]	30.89	31.09	31.29	31.49
Maximum Power Current - Imp [A]	12.63	12.71	12.79	12.87
Open-circuit Voltage - Voc [V]	37.42	37.62	37.82	37.92
Short-circuit Current - Isc [A]	13.27	13.35	13.43	13.51
Module Efficiency STC (%)	19.98	19.24	20.50	20.75
Power Tolerance	±3%			
Temperature Coefficient of Pmax	-0.39%/°C			
Temperature Coefficient of Voc	-0.33%/°C			
Temperature Coefficient of Isc	0.06%/°C			

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

Specifications (NOCT)

Maximum Power - Pmax [Wp]	288	292	296	300
Maximum Power Voltage - Vmp [V]	28.38	28.58	28.78	28.98
Maximum Power Current - Imp [A]	10.15	10.22	10.29	10.36
Open-circuit Voltage - Voc [V]	31.55	31.75	31.95	32.05
Short-circuit Current - Isc [A]	10.72	10.79	10.86	10.93

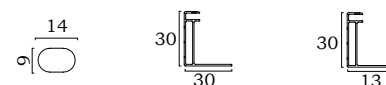
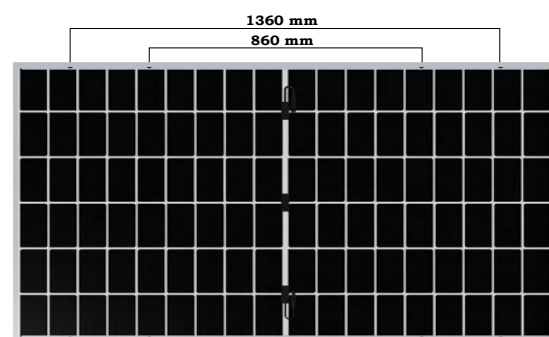
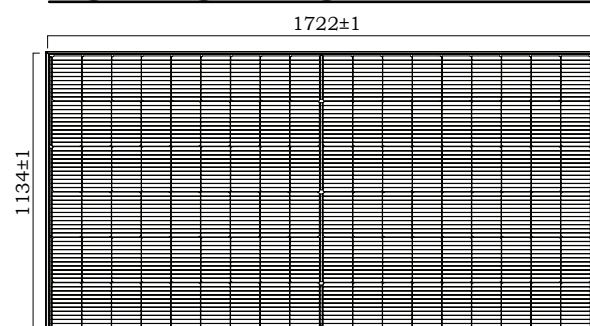
*NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Operating Conditions

Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25 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%

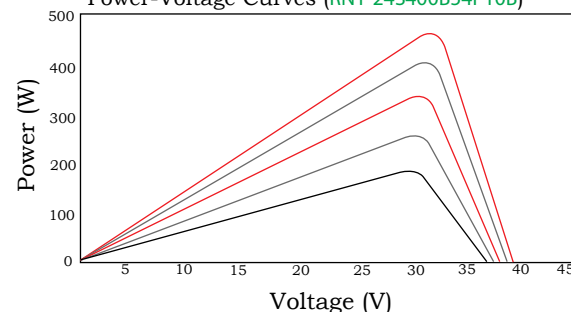
Remark: Customized frame color and cable length availabe upon request.

Engineering Drawings

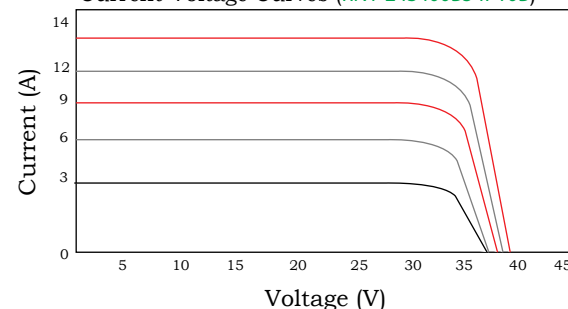


Electrical Performance

Power-Voltage Curves (RN1-24S400B54P10B)



Current-Voltage Curves (RN1-24S400B54P10B)



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

