

# OS N 25

## N-type High Efficiency Module

### 575~585Wp

### RN1-24S580M72N16B

- 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



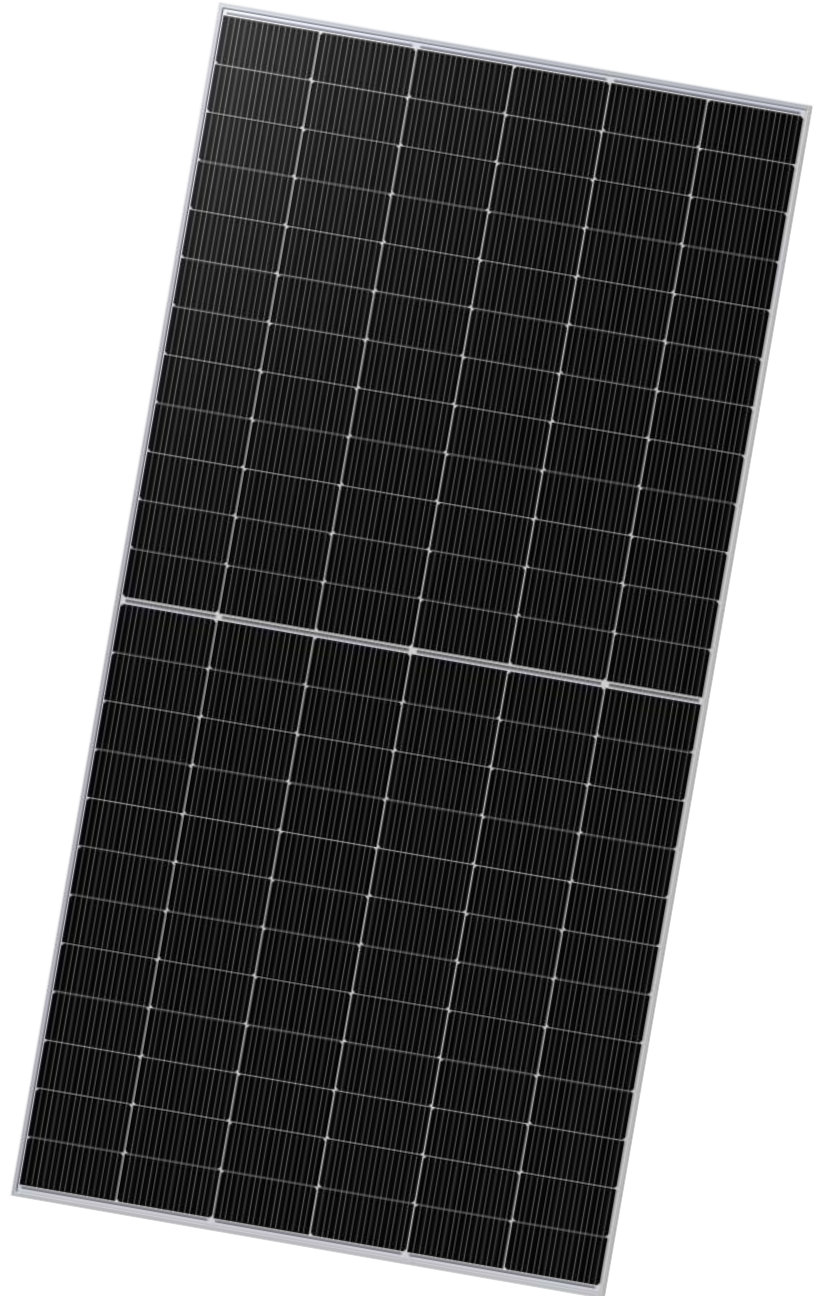
12 Years Product Warranty



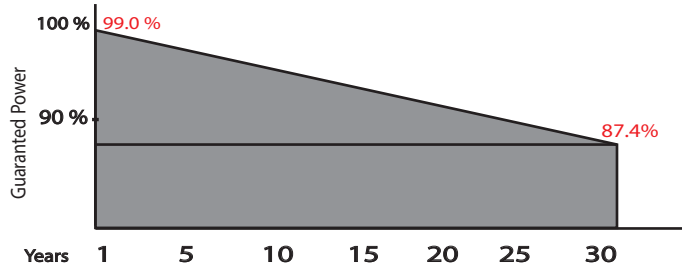
30 Years Linear Power Warranty



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 <sup>2</sup>                                   |
| Cable Length             | ± 300mm (Cable length can be customized)           |
| Front Glass              | 3.2mm (High transmission, low iron tempered glass) |
| Backsheet                | TPT                                                |
| Encapsulant Material     | POE/EVA                                            |
| Protection Class         | Class II                                           |
| Fire Performance         | Class C                                            |
| Frame                    | Anodized Aluminium Alloy                           |
| Weight                   | 27 kg                                              |
| Module Dimensions        | 2278 x 1134 x 30mm                                 |

Packaging Configuration

|                           |                                                   |
|---------------------------|---------------------------------------------------|
| Pallet Dimensions (L*W*H) | 2300 x 1115 x 1275 mm                             |
| Packaging Configuration   | 36pcs/pallet, 360pcs/20' & 720pcs/40'HQ Container |

Specifications (STC)

|                                 |       |           |       |
|---------------------------------|-------|-----------|-------|
| Maximum Power - Pmax [Wp]       | 575   | 580       | 585   |
| Maximum Power Voltage - Vmp [V] | 43.72 | 43.92     | 44.13 |
| Maximum Power Current - Imp [A] | 13.16 | 13.21     | 13.26 |
| Open-circuit Voltage - Voc [V]  | 52.07 | 52.28     | 52.48 |
| Short-circuit Current - Isc [A] | 13.81 | 13.86     | 13.91 |
| Module Efficiency STC (%)       | 22.27 | 22.46     | 22.65 |
| Power Tolerance                 |       | ±3%       |       |
| Temperature Coefficient of Pmax |       | -0.29%/°C |       |
| Temperature Coefficient of Voc  |       | -0.25%/°C |       |
| Temperature Coefficient of Isc  |       | 0.045%/°C |       |

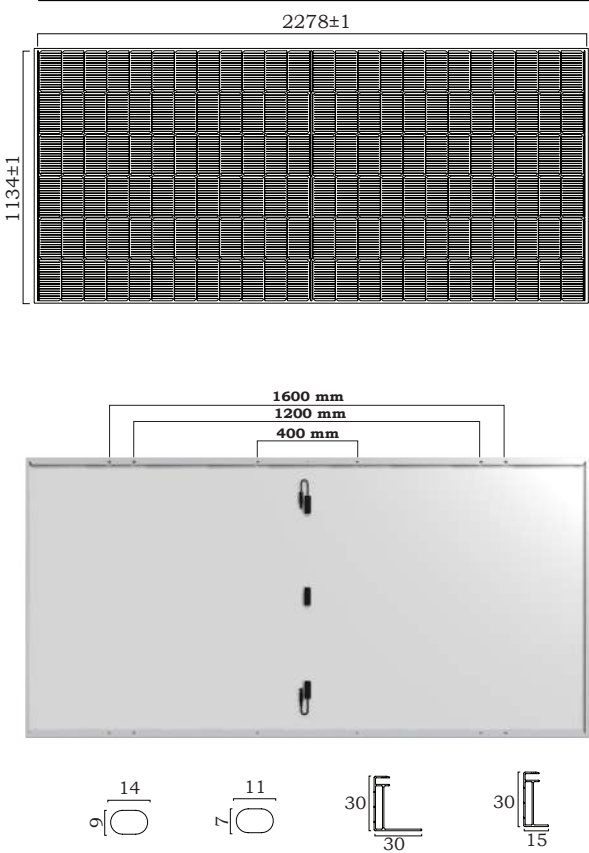
Specifications (NOCT)

|                                 |       |       |       |
|---------------------------------|-------|-------|-------|
| Maximum Power - Pmax [Wp]       | 433   | 437   | 441   |
| Maximum Power Voltage - Vmp [V] | 41.14 | 41.33 | 41.52 |
| Maximum Power Current - Imp [A] | 10.53 | 10.58 | 10.63 |
| Open-circuit Voltage - Voc [V]  | 48.99 | 49.20 | 49.40 |
| Short-circuit Current - Isc [A] | 11.08 | 11.13 | 11.18 |

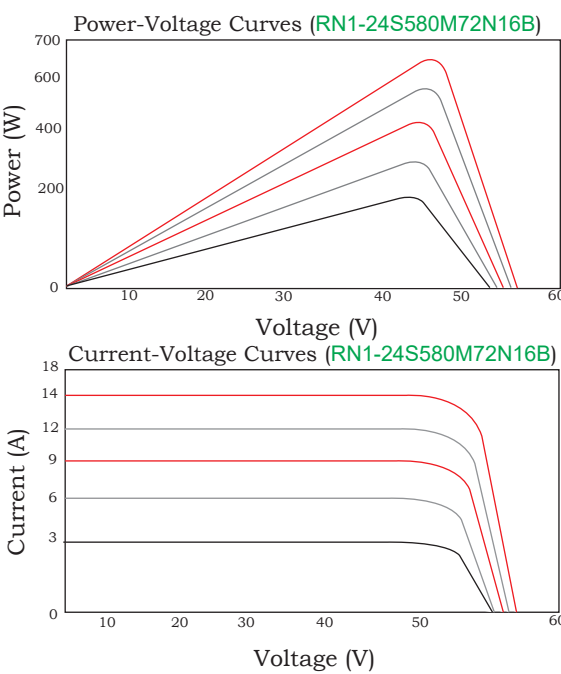
Operating Conditions

|                                |                |
|--------------------------------|----------------|
| 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         |

Engineering Drawings



Electrical Performance



**STC:** Irradiance 1000W/m<sup>2</sup>  
 Cell Temperature 25°C  
 AM=1.5

**NOCT:** Irradiance 800W/m<sup>2</sup>  
 Ambient Temperature 20°C  
 AM=1.5  
 Wind Speed 1m/s

