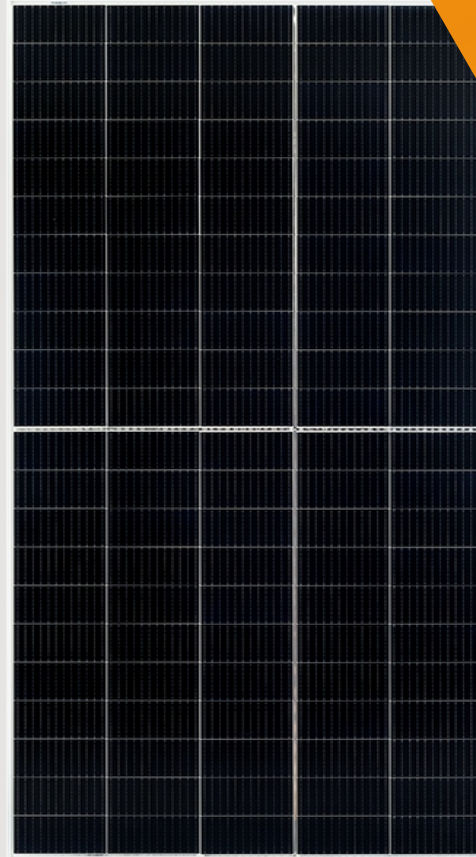




# NPV110-9-575BN

- **110 CELL**  
Mono TOPCON Module
- **1500VDC**  
Maximum System Voltage
- **555-575Wp**  
Power Output Range
- **22.0%**  
Maximum Efficiency



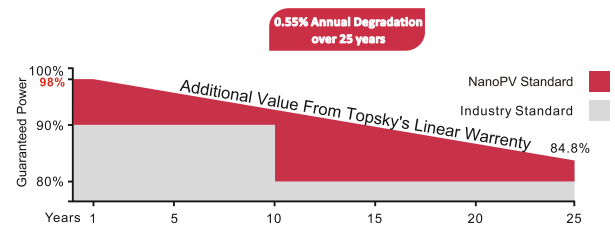
## KEY SALIENT FEATURES

- Global, bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive power tolerance of 0~+3%
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and system certification
  - ◆ IEC61215:2016; IEC61730-1/-2:2016;
  - ◆ ISO 9001:2015 Quality Management System
  - ◆ ISO 14001:2015 Environmental Management System
  - ◆ ISO 45001:2018 Occupational Health and Safety Management System

## HIGH PERFORMANCE N-TYPE TOPCON MONOCRYSTALLINE MODULE

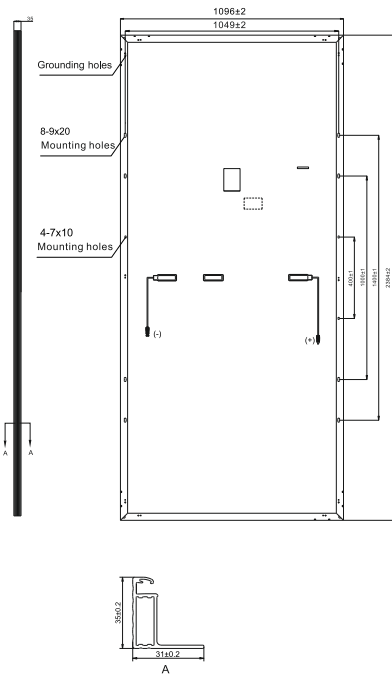
## LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



★ Please check the valid version of Limited Product Warranty which is officially released by NanoPV

## Dimensions of PV Module Unit: mm



## ELECTRICAL DATA (STC)

| Model Number                  | NPV110-9-555BN | NPV110-9-560BN | NPV110-9-565BN | NPV110-9-570BN | NPV110-9-575BN |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|
| Rated Power in Watts-Pmax(Wp) | 555            | 560            | 565            | 570            | 575            |
| Open Circuit Voltage-Voc(V)   | 39.47          | 39.63          | 39.78          | 39.94          | 40.10          |
| Short Circuit Current-Isc(A)  | 17.98          | 18.03          | 18.07          | 18.11          | 18.16          |
| Maximum Power Voltage-Vmpp(V) | 32.95          | 33.10          | 33.25          | 33.40          | 33.55          |
| Maximum Power Current-Impp(A) | 16.84          | 16.93          | 16.99          | 17.08          | 17.14          |
| Module Efficiency (%) ★       | 21.2           | 21.4           | 21.6           | 21.8           | 22.0           |

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

★ Module Efficiency (%): Round-off to the nearest number

## ELECTRICAL DATA (NMOT)

| Model Number                  | NPV110-9-555BN | NPV110-9-560BN | NPV110-9-565BN | NPV110-9-570BN | NPV110-9-575BN |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|
| Rated Power in Watts-Pmax(Wp) | 420.1          | 424.2          | 427.7          | 431.9          | 435.3          |
| Open Circuit Voltage-Voc(V)   | 36.71          | 36.86          | 37.00          | 37.15          | 37.30          |
| Short Circuit Current-Isc(A)  | 14.75          | 14.79          | 14.82          | 14.85          | 14.89          |
| Maximum Power Voltage-Vmpp(V) | 30.58          | 30.72          | 30.86          | 30.99          | 31.13          |
| Maximum Power Current-Impp(A) | 13.74          | 13.81          | 13.86          | 13.93          | 13.98          |

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

## MECHANICAL DATA

|                    |  |
|--------------------|--|
| Solar cells        | Monocrystalline  |
| Cell configuration | 110 cells (5×11+5×11)  |
| Module dimensions  | 2384×1096×35mm   |
| Weight             | 29kg   |
| Superstrate        | High Transmission, Low Iron, Tempered ARC Glass                              |
| Substrate          | White Back-sheet   |
| Frame              | Anodized Aluminium Alloy, Silver Color                                       |
| J-Box              | Potted, IP68, 1500VDC, 3 Schottky bypass diodes                              |
| Cables             | 4.0mm <sup>2</sup> , Positive(+)350mm, Negative(-)230mm (Connector Included) |
| Connector          | IP68   |

## TEMPERATURE & MAXIMUM RATINGS

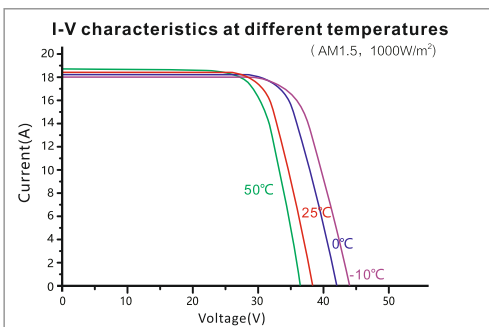
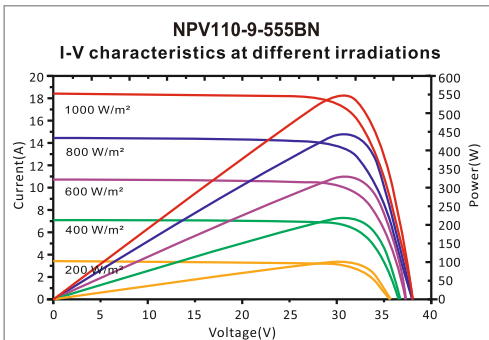
|   |             |
|---|-------------|
| Nominal Module Operating Temperature (NMOT) | 44°C±2°C    |
| Temperature Coefficient of Voc              | -0.25%/°C   |
| Temperature Coefficient of Isc              | 0.04%/°C    |
| Temperature Coefficient of Pmax             | -0.34%/°C   |
| Operational Temperature                     | -40°C~+85°C |
| Maximum System Voltage                      | 1500VDC     |
| Max Series Fuse Rating                      | 30A         |
| Limiting Reverse Current                    | 30A         |

## PACKAGING CONFIGURATION

|  | 40ft(HQ)       | 20ft           |
|--|----------------|----------------|
| Number of modules per container        | 620            | 124            |
| Number of modules per pallet           | 31             | 31             |
| Number of pallets per container        | 20             | 4              |
| Packaging box dimensions (LxWxH) in mm | 2395×1120×1235 | 2395×1120×1235 |
| Box gross weight[kg]                   | 945            | 945            |

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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