



# NPV120-9-620BN

- **120 CELL**  
Mono TOPCON Module
- **1500VDC**  
Maximum System Voltage
- **605-630Wp**  
Power Output Range
- **22.3%**  
Maximum Efficiency



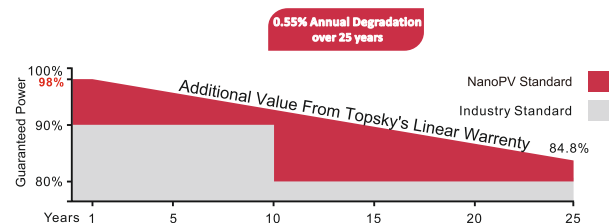
## KEY SALIENT FEATURES

- 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

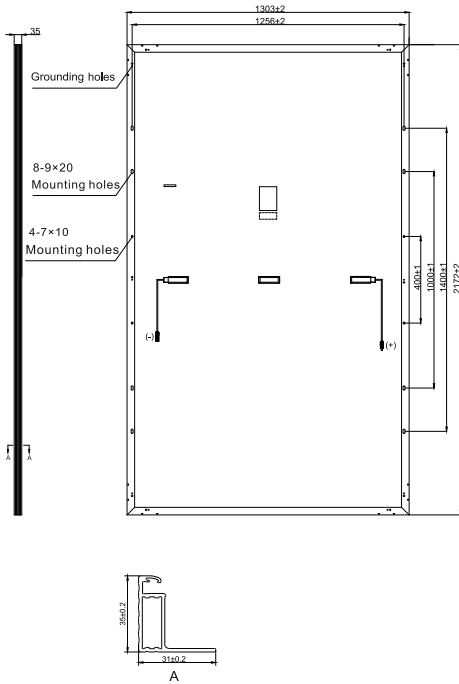
## LINEAR PERFORMANCE WARRANTY

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	NPV120-9-605BN	NPV120-9-610BN	NPV120-9-615BN	NPV120-9-620 BN	NPV120-9-625BN	NPV120-9-630BN
Rated Power in Watts-Pmax(Wp)	<b>605</b>	<b>610</b>	<b>615</b>	<b>620</b>	<b>625</b>	<b>630</b>
Open Circuit Voltage-Voc(V)	42.92	43.05	43.23	43.40	43.57	43.75
Short Circuit Current-Isc(A)	17.81	17.89	17.96	18.03	18.10	18.17
Maximum Power Voltage-Vmpp(V)	35.51	35.96	36.13	36.30	36.47	36.63
Maximum Power Current-Imp(A)	16.90	16.97	17.03	17.08	17.15	17.21
Module Efficiency (%) ★	21.4	21.6	21.7	21.9	22.1	22.3

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	NPV120-9-605BN	NPV120-9-610BN	NPV120-9-615BN	NPV120-9-620 BN	NPV120-9-625BN	NPV120-9-630BN
Rated Power in Watts-Pmax(Wp)	<b>458.2</b>	<b>462.0</b>	<b>465.8</b>	<b>469.4</b>	<b>473.5</b>	<b>477.2</b>
Open Circuit Voltage-Voc(V)	39.92	40.04	40.21	40.36	40.52	40.69
Short Circuit Current-Isc(A)	14.61	14.67	14.73	14.79	14.84	14.90
Maximum Power Voltage-Vmpp(V)	33.23	33.37	33.53	33.69	33.84	33.99
Maximum Power Current-Imp(A)	13.79	13.84	13.89	13.93	13.99	14.04

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

## MECHANICAL DATA

Solar cells	N-Type Topcon Monocrystalline
Cell configuration	120 cells (6×10+6×10)
Module dimensions	2172×1303×35mm
Weight	30kg
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)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1120×2310
Box gross weight[kg]	971

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.  
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 No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.

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