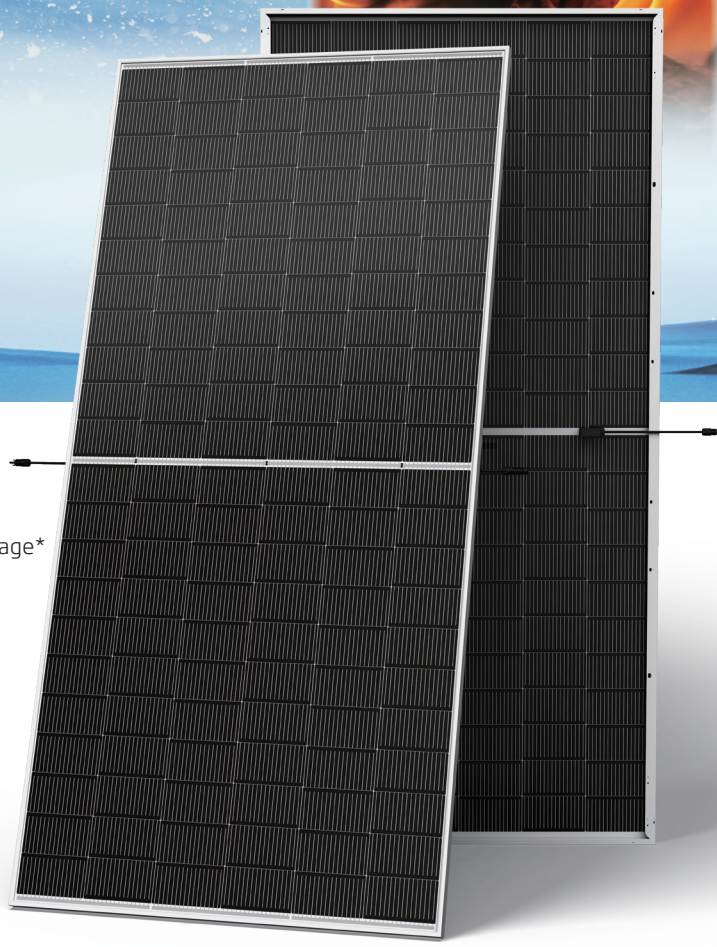



# Vertex N

— TOPCon —

# Shield

TSM-NED19RC.20
600-625W



## Key Features

Pass IEC 55mm diameter hail certificate at a speed of 33.9m/s
Effectively reduce over 50% probability of losses caused by hail damage*

Mechanical load with fixed mounting installation: +7000/-5000Pa
Mechanical load with tracking installation: +3600/-3000Pa

Pass IEC 61730-2 Class A+A fire rating certificate
Pass EN13501-1 Class B certificate (FIGRA 19W/s)
Pass UL61730 Type 30 fire resistance certificate

Uneven snow load capacity up to 6600Pa

*Please get in contact with Trina Solar technical team for more details on the VDE PRE/PML/AAL report.

## Better bankability, more profit

- Highly reliable products reduce insurance costs and reduce payout risk
- High power up to 625W and 23.1% module efficiency, on 210 innovation platform
- Low voltage design with higher string power, effectively reducing BOS and LCOE
- High Bifaciality & excellent low-irradiation performance, improve electricity generation per Watt

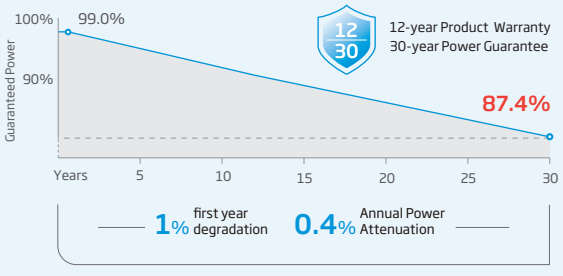
## High reliability, resist for extremes

- Pass salt, ammonia, dust, PID, LID, LeTID certificate

## Diversified scenarios adaption

- Support diversified installation methods, suitable for various application scenarios
- Typical module format design, better compatibility with trackers
- Excellent compatibility with existing mainstream inverters

## Performance Warranty




* Please refer to product warranty for details

## Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716/UL61730
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO45001: Occupational Health and Safety Management System

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Version number: TSM_NA_EN_2026_PA3_S1

Trinasolar

# Vertex N

**N-type TOPCon BIFACIAL DUAL GLASS MONOCRYSTALLINE MODULE**

## ELECTRICAL DATA (STC & NOCT)

| Testing Condition | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peak Power Watts-PMAX(Wp)* | 600 | 458 | 605 | 462 | 610 | 465 | 615 | 469 | 620 | 473 | 625 | 477 |
| Power Selection (W)** | 0 ~ +5 | | | | | | | | | | | |
| Maximum Power Voltage-VMPP (V) | 39.43 | 37.30 | 39.57 | 37.40 | 39.79 | 37.60 | 39.97 | 37.80 | 40.24 | 37.90 | 40.46 | 38.10 |
| Maximum Power Current-IMPP (A) | 15.22 | 12.29 | 15.29 | 12.33 | 15.33 | 12.38 | 15.39 | 12.43 | 15.41 | 12.47 | 15.45 | 12.52 |
| Open Circuit Voltage-VOC (V) | 47.69 | 45.30 | 47.89 | 45.50 | 48.09 | 45.70 | 48.29 | 45.90 | 48.50 | 46.10 | 48.70 | 46.30 |
| Short Circuit Current-ISC (A) | 16.02 | 12.91 | 16.08 | 12.96 | 16.14 | 13.00 | 16.20 | 13.05 | 16.26 | 13.10 | 16.32 | 13.15 |
| Module Efficiency η m (%) | 22.2 | | 22.4 | | 22.6 | | 22.8 | | 23.0 | | 23.1 | |

STC: Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. *Measuring tolerance: ±3%. **Power selection up to: +3%.

## Electrical characteristics with different power bin (reference to 5% & 10% backside power gain)

| Backside Power Gain | 5% | 10% | 5% | 10% | 5% | 10% | 5% | 10% | 5% | 10% | 5% | 10% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Peak Power Watts-PMAX(Wp) | 630 | 660 | 635 | 666 | 641 | 671 | 646 | 677 | 651 | 682 | 656 | 688 |
| Maximum Power Voltage-VMPP (V) | 39.43 | 39.43 | 39.57 | 39.57 | 39.79 | 39.79 | 39.97 | 39.97 | 40.24 | 40.24 | 40.46 | 40.46 |
| Maximum Power Current-IMPP (A) | 15.98 | 16.74 | 16.05 | 16.82 | 16.10 | 16.86 | 16.16 | 16.93 | 16.18 | 16.95 | 16.22 | 17.00 |
| Open Circuit Voltage-VOC (V) | 47.69 | 47.69 | 47.89 | 47.89 | 48.09 | 48.09 | 48.29 | 48.29 | 48.50 | 48.50 | 48.70 | 48.70 |
| Short Circuit Current-ISC (A) | 16.82 | 17.62 | 16.88 | 17.69 | 16.95 | 17.75 | 17.01 | 17.82 | 17.07 | 17.89 | 17.14 | 17.95 |

Power Bifaciality:80±5%.

## TEMPERATURE RATINGS

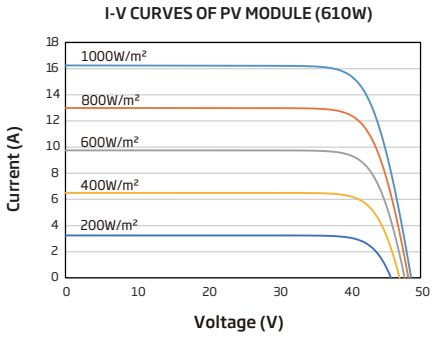
| | |
|---|---|
| NOCT (Nominal Operating Cell Temperature) | 43℃ (±2℃) |
| Temperature Coefficient of PMAX | - 0.29% /℃ |
| Temperature Coefficient of VOC | - 0.24% /℃ |
| Temperature Coefficient of ISC | 0.04% /℃ |

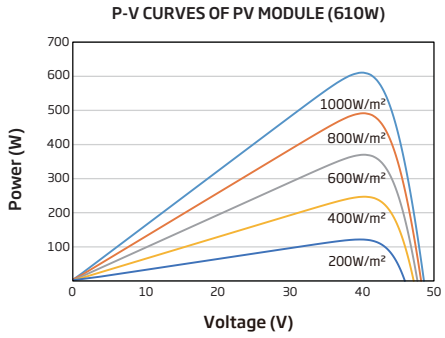
Due to different testing methods, the actual performances might differ from the declared specifications.

## APPLICATION CONDITIONS

| | |
|---|---|
| Operating Temperature | -40~+85℃ |
| Maximum System Voltage | 1500V DC (IEC)<br>1500V DC (UL) |
| Max Series Fuse Rating | 35A |

## CURVES OF PV MODULE

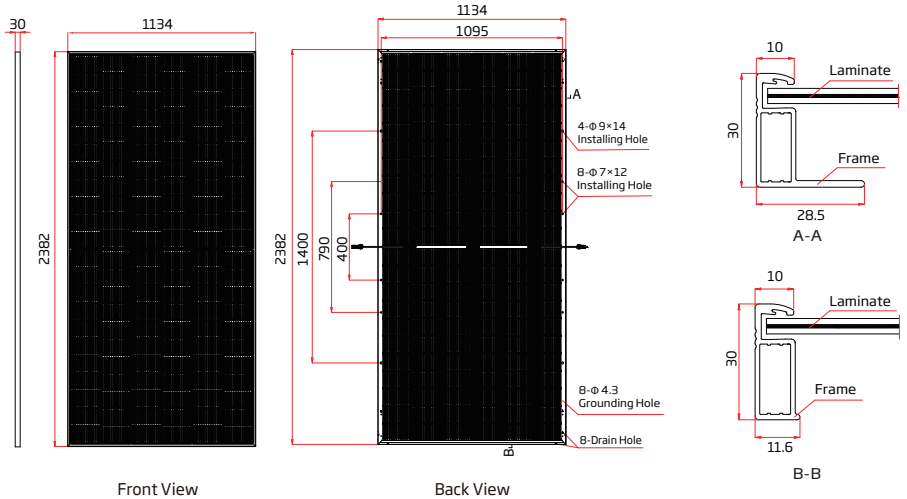



## MECHANICAL DATA

| | |
|---|---|
| Solar Cells | N-type i-TOPCon Monocrystalline |
| No. of cells | 132 cells |
| Module Dimensions | 2382×1134×30 mm<br>(93.78×44.65×1.18 inches) |
| Weight | 39.7 kg (87.5 lb) |
| Front Glass | AR Coating Heat Strengthened Glass |
| Back Glass | Heat Strengthened Glass |
| Frame | 30mm(1.18 inches)<br>Anodized Aluminium Alloy |
| J-Box | IP 68 rated |
| Cables | Photovoltaic Technology<br>Cable 4.0mm² (0.006 inches²)<br>Portrait: 200/320 mm(7.87/12.60 inches)<br>Length can be customized |
| Connector | TS4 Plus / TS4 / MC4 EVO2* |
| Fire Type | Type 30 or Class A |
| Packaging | Modules per box: 36 pieces<br>Modules per 40'/53' container: 432 pieces |

*The connector names listed are general names; specific types are subject to the certification documents.




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