Vertex N
N-type i-TOPCon bifacial dual glass
Monocrystalline module

700W
MAXIMUM POWER OUTPUT

0~+5W
POSITIVE POWER TOLERANCE

22.5%
MAXIMUM EFFICIENCY

High customer value
- The star of LCOE (Levelized Cost Of Energy). Higher string power feature effectively reduces BOS (Balance of System) and LCOE
- More energy harvest with cutting-edge N-type i-TOPCon technology
- Designed for compatibility with existing mainstream system components

High power up to 700W
- Up to 22.5% module efficiency with high density interconnect technology
- SMBB (Super multi-busbar) technology for better light trapping effect, lower series resistance and improved current collection

High reliability
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield
- Excellent product bifaciality and low irradiation performance, validated by 3rd party
- Lower degradation: 1% first year, 0.4% annually thereafter
- Lower temperature coefficient (-0.30%)
- Up to 30% additional power gain from back side depending on albedo

Trina Solar’s Vertex Bifacial Dual Glass Performance Warranty

Comprehensive Products and System Certificates
IEC61215/IEC61701/IEC61730/IEC62716
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System

EU-28 WEEE
COMPLIANT
RECYCLABLE
PACKAGING
**Vertex N**

**N-type i-TOPCon bifacial dual glass Monocrystalline module**

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

- **Power Bifaciality:** 80±5%

**MECHANICAL DATA**

- **Module Efficiency**
- **ELECTRICAL DATA (STC & NOCT)**
  - **Testing Condition**
  - **Peak Power Watts-P**
  - **Maximum Power Voltage-VMPP (V)**
  - **Maximum Power Current-IMPP (A)**
  - **Open Circuit Voltage-VOC (V)**
  - **Power Tolerance-PMAX (W)**
  - **Short Circuit Current-ISC (A)**
  - **Backside Power Gain**
  - **Total Equivalent power -PMAX (Wp)**
  - **Maximum Power Voltage-VMPP (V)**
  - **Maximum Power Current-IMPP (A)**
  - **Open Circuit Voltage-VOC (V)**
  - **Short Circuit Current-ISC (A)**

**DIMENSIONS OF PV MODULE(mm)**

- **Back View**
  - **33**
  - **1303**
  - **1303**
  - **1264**
  - **1264**

**I-V CURVES OF PV MODULE(690W)**

**P-V CURVES OF PV MODULE(690 W)**

**MECHANICAL DATA**

- **Solar Cells:** N-type Monocrystalline
- **No. of cells:** 132 cells
- **Module Dimensions:** 2384×1303×33 mm (93.86×51.30×1.30 inches)
- **Weight:** 38.3 kg (84.4 lb)
- **Front Glass:** 2.0 mm (0.08 inches), High Transmission, All Coated Heat Strengthened Glass
- **Back Glass:** 2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
- **Encapsulant material:** POE/EVA
- **Frame:** 33mm (1.30 inches) Anodized Aluminium Alloy
- **Connector:** MC4 EVO2 / TS4 PLUS / TS4* (Please refer to regional datasheet for specified connector)

**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%

**Temperature Coefficient of VOC**

- 0.04%/°C

**Max Series Fuse Rating**

- 35A

**WARRANTY**

- 12 year Product Workmanship Warranty
- 30 year Power Warranty
- 1%/ first year degradation
- 0.40%/ Annual Power Attenuation

**PACKAGING CONFIGURATION**

- Modules per box: 33 pieces
- Modules per 40' container: 594 pieces

**Trinasolar**

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