Up to 430W, 21.5% module efficiency with high density interconnect technology
Reduce installation cost with higher power bin and efficiency
Boost performance in warm weather with low temperature coefficient and operating temperature

Mono Multi Solutions

POSITIVE POWER TOLERANCE

MAXIMUM POWER OUTPUT

21.5%

MAXIMUM EFFICIENCY

Small in size, bigger on power
- Up to 430W, 21.5% module efficiency with high density interconnect technology
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with low temperature coefficient and operating temperature

High Reliability
- Innovative non-destructive cutting for improved mechanical resistance and strength
- Excellent fire rating, weather resistance, salt spray, sand dust, ammonia performance which is fully applicable in coastal, high temperature, humidity area and harsh environment

Ultra-low Degradation, longer warranty, higher output
- First-year degradation 1% and annual degradation at 0.4%
- Up to 25 years product warranty and 25 years power warranty

Universal solution for residential and C&I rooftops
- Easy for integration, designed for compatibility with existing mainstream inverters and diverse mounting systems
- Perfect size and low weight for handling and installation
- Most valuable solution on low load capacity rooftops (weight similar to backsheet version)
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load

Trina Solar’s Vertex Bifacial Backsheet Performance Warranty

Comprehensive Products and System Certificates
- IEC61215/IEC61730/IEC61701/IEC62716/UL61730
- 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
DIMENSIONS OF PV MODULE (mm)

<table>
<thead>
<tr>
<th>Front View</th>
<th>Back View</th>
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<tr>
<td>1134</td>
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I-V CURVES OF PV MODULE (415 W)

P-V CURVES OF PV MODULE (415 W)

ELECTRICAL DATA (STC)

- Peak Power: 425 Wp
- Power Tolerance: 0.5%
- Maximum Power Voltage: 41.7 V
- Maximum Power Current: 10.34 A
- Open Circuit Voltage: 49.6 V
- Short Circuit Current: 11.00 A

Electrical characteristics with different power bin (reference to 10% Irradiance ratio)

- Total Equivalent power: 431 Wp
- Maximum Power Voltage: 41.7 V
- Maximum Power Current: 10.34 A
- Open Circuit Voltage: 49.6 V
- Short Circuit Current: 11.00 A

MECHANICAL DATA

- Solar Cells: Topcon Bifacial
- No. of cells: 144 cells
- Module Dimensions: 1762 x 1134 x 30 mm (69.37 x 44.65 x 1.18 inches)
- Weight: 21.3 kg (47.0 lb)
- Front Glass: 3.2 mm (0.12 inches), High Transmission, Tempered Glass
- Encapsulant material: POE/EVA
- BackSheet: Black Grid Transparent Backsheet
- Frame: 30mm (1.18 inches) Anodized Aluminum Alloy, Black
- Connector: MC4 EVO2
- Fire Type: Type 1 or Type 2

TEMPERATURE RATINGS

- NOCT (Nominal Operating Cell Temperature): 40°C (104°F)
- Temperature Coefficient of Power: -0.30%/°C
- Temperature Coefficient of Voc: -0.24%/°C
- Temperature Coefficient of Isc: 0.04%/°C

WARRANTY

- 25 year Product Workmanship Warranty
- 25 year Power Warranty
- 1% first year degradation
- 0.4% Annual Power Attenuation

PACKAGING CONFIGURATION

- Modules per box: 36 pieces
- Modules per 40' container: 792 pieces
- Pallet dimensions (L x W x H): 1980 x 1135 x 1259 mm
- Pallet weight: 829 kg (1827 lb)