Vertex
BACKSHEET MONOCRYSTALLINE MODULE

555W+ MAXIMUM POWER OUTPUT  0~+5W POSITIVE POWER TOLERANCE  21.2% MAXIMUM EFFICIENCY

High customer value
• Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance of System) cost, shorter payback time
• Lowest guaranteed first year and annual degradation;
• Designed for compatibility with existing mainstream system components
• Higher return on Investment

High power up to 555W
• Up to 21.2% module efficiency with high density interconnect technology
• 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
• Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield
• Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
• The unique design provides optimized energy production under inter-row shading conditions
• Lower temperature coefficient (-0.34%) and operating temperature

Trina Solar’s Backsheet Performance Warranty

Comprehensive Products and System Certificates
IEC61215/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
DIMENSIONS OF PV MODULE (mm)

ELECTRICAL DATA (STC)

- Peak Power Watts-PMAX (Wp)*: 535, 540, 545, 550, 555
- Power Tolerance-ΔPmax (W): 0 – +5
- Maximum Power Voltage-Vmax (V): 31.0, 31.1, 31.4, 31.6, 31.8
- Maximum Power Current-Imax (A): 17.28, 17.33, 17.37, 17.40, 17.45
- Open Circuit Voltage-Voc (V): 37.3, 37.5, 37.7, 37.9, 38.1
- Short Circuit Current-Isc (A): 18.36, 18.41, 18.47, 18.52, 18.59
- Module Efficiency-ηm (%): 20.5, 20.7, 20.9, 21.0, 21.2

ELECTRICAL DATA (NOCT)

- Maximum Power Voltage-Vmax (V): 28.8, 29.0, 29.2, 29.3, 29.5
- Open Circuit Voltage-Voc (V): 35.1, 35.3, 35.5, 35.7, 35.9
- Short Circuit Current-Isc (A): 14.80, 14.84, 14.88, 14.92, 14.96

MECHANICAL DATA

- Solar Cells: Monocrystalline
- No. of cells: 110 cells
- Module Dimensions: 3834×1096×35 mm (140.02×43.15×1.38 inches)
- Weight: 28.6 kg (63.1 lb)
- Glass: 3.2 mm (10.19 inches), High Transmission, Al Coated Heat Strengthened Glass
- Encapsulant material: EVA
- Backsheet: White
- Frame: 35mm (1.38 inches) Anodized Aluminum Alloy
- J-Box: MC4 EVO2 / TS4*
- Cables: Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 280/280 mm (11.02/11.02 inches), Landscape: 1400/1400 mm (55.12/55.12 inches)
- Connector: MC4 EVO2 / TS4*

TEMPERATURE RATINGS

- NOCT: 35°C (100 W/m², 20°C, AM 1.5 G, 0 monger tolerance ±3%)

WARRANTY

- 12 year Product Workmanship Warranty
- 25 year Power Warranty
- 0.5% first year degradation
- 0.55% Annual Power Attenuation
- (Please refer to product warranty for details)

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