

PRODUCT: TSM-XXXDEG19RC.20

PRODUCT RANGE: 555-575W

575W

MAXIMUM POWER OUTPUT

0~+5W

BINNING TOLERANCE

21.3%

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 Mono Perc up to 575W

- Up to 21.3% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



High reliability

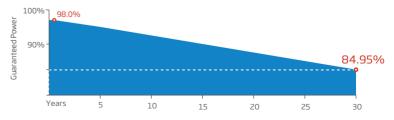
- Minimized micro-cracks with innovative non-destructive cutting technology
- Fire class rating C
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

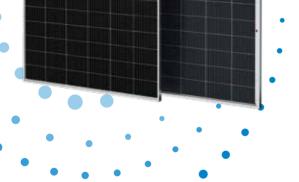


High energy yield

- 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
- \bullet Lower temperature coefficient (-0.34%) and operating temperature
- \bullet Up to 25% additional power gain from back side depending on albedo

Trina Solar's Vertex Bifacial Dual Glass Performance Warranty





Comprehensive Products and System Certificates





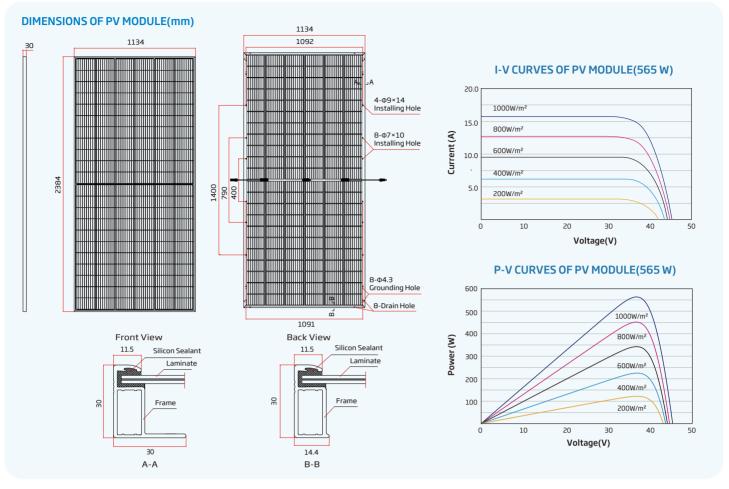












ELECTRICAL DATA (STC) TSM-XXXDEG19RC.20 (XXX=555-575)

| • • | | | | | |
|--|-------|-------|--------|-------|-------|
| Peak Power Watts-PMAX (Wp)* | 555 | 560 | 565 | 570 | 575 |
| Binning Tolerance-PMAX (W) | | | 0 ~ +5 | | |
| Maximum Power Voltage-V _{MPP} (V) | 37.4 | 37.7 | 37.9 | 38.2 | 38.4 |
| Maximum Power Current-Impp (A) | 14.82 | 14.86 | 14.90 | 14.94 | 14.97 |
| Open Circuit Voltage-Voc (V) | 45.0 | 45.2 | 45.5 | 45.7 | 46.0 |
| Short Circuit Current-Isc (A) | 15.87 | 15.87 | 15.90 | 15.93 | 16.05 |
| Module Efficiency η m (%) | 20.5 | 20.7 | 20.9 | 21.1 | 21.3 |

STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

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

| Total Equivalent power -PMAX (Wp) | 594 | 599 | 605 | 610 | 615 |
|-----------------------------------|-------|-------|-------|-------|-------|
| Maximum Power Voltage-VMPP (V) | 37.7 | 37.9 | 38.2 | 38.4 | 38.7 |
| Maximum Power Current-Impp (A) | 15.75 | 15.81 | 15.83 | 15.88 | 15.90 |
| Open Circuit Voltage-Voc (V) | 45.0 | 45.2 | 45.5 | 45.7 | 46.0 |
| Short Circuit Current-Isc (A) | 16.91 | 16.97 | 17.01 | 17.05 | 17.09 |
| Irradiance ratio (rear/front) | | | 10% | | |
| | | | | | |

ELECTRICAL DATA (NOCT)

| Maximum Power-PMAX (Wp) | 420 | 424 | 428 | 431 | 436 |
|--------------------------------|-------|-------|-------|-------|-------|
| Maximum Power Voltage-VMPP (V) | 34.8 | 34.9 | 35.2 | 35.4 | 35.7 |
| Maximum Power Current-IMPP (A) | 12.07 | 12.12 | 12.15 | 12.18 | 12.22 |
| Open Circuit Voltage-Voc (V) | 42.4 | 42.6 | 42.8 | 43.0 | 43.3 |
| Short Circuit Current-Isc (A) | 12.73 | 12.78 | 12.81 | 12.84 | 12.87 |

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

| Solar Cells | Monocrystalline |
|----------------------|---|
| No. of cells | 132 cells |
| Module Dimensions | 2384×1134×30 mm (93.86×44.65×1.18 inches) |
| Weight | 33.7 kg (74.30 lb) |
| Front Glass | 2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant material | EVA/POE |
| Back Glass | 2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass) |
| Frame | 30mm(1.18 inches) Anodized Aluminium Alloy |
| J-Box | IP 68 rated |
| Cables | Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 350/280 mm(13.78/11.02 inches) Length can be customized |
| Connector | Staubli MC4 EVO2 / Trina TS4 |

TEMPERATURE RATINGS

| NOCT (Nominal Operating Cell Temperature) | 43°C (±2°C) | |
|---|-------------|--|
| Temperature Coefficient of PMAX | - 0.34%/°C | |
| Temperature Coefficient of Voc | - 0.25%/°C | |
| Temperature Coefficient of Isc | 0.04%/°C | |

WARRANTY

12 year Product Workmanship Warranty 30 year Power Warranty 2% first year degradation 0.45% Annual Power Attenuation

(Please refer to product warranty for details)

MAXIMUMRATINGS

| Operational Temperature | -40~+85°C | | |
|-------------------------|----------------|--|--|
| Maximum System Voltage | 1500V DC (IEC) | | |
| Max Series Fuse Rating | 35A | | |

PACKAGING CONFIGUREATION

Modules per box: 36 pieces Modules per 40' container: 720 pieces

