

BIFACIAL DUAL GLASS MONOCRYSTALLINE MODULE

PRODUCT: TSM-DEG19RC.20

PRODUCT RANGE: 555-575W

575W

MAXIMUM POWER OUTPUT

)~+5W

POSITIVE POWER 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 up to 575W

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



High reliability

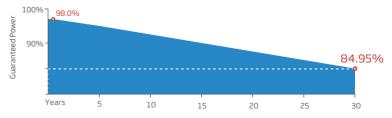
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive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



High energy yield

- Excellent 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
- 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

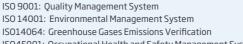








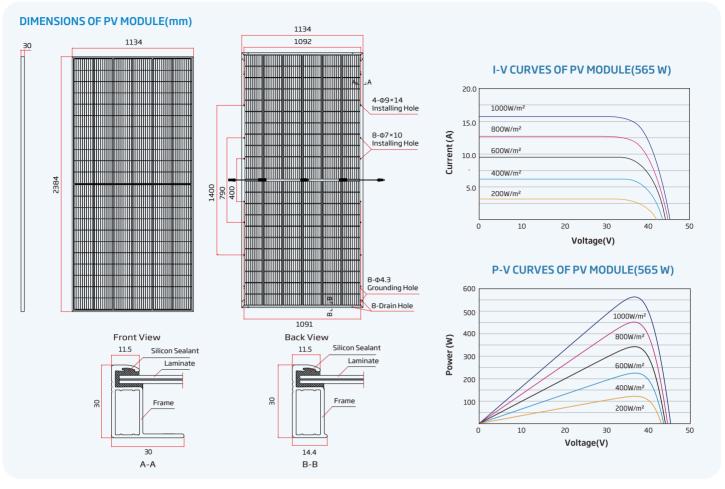




IEC61215/IEC61730/IEC61701/IEC62716

ISO45001: Occupational Health and Safety Management System





ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	555	560	565	570	575
Power Tolerance-PMAX (W)			0 ~ +5		
Maximum Power Voltage-VMPP (V)	37.7	37.9	38.2	38.4	38.7
Maximum Power Current-IMPP (A)	14.72	14.76	14.80	14.84	14.87
Open Circuit Voltage-Voc (V)	45.0	45.2	45.5	45.7	46.0
Short Circuit Current-Isc (A)	15.80	15.86	15.90	15.93	15.97
Module Efficiency n 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-V _{MPP} (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
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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	$2.0\ mm\ (0.08\ in ches), {\it High Transmission}, {\it AR Coated Heat Strengthened Glass}$
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	MC4 EV02 / TS4*

*Please refer to regional datasheet for specified connector.

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		

MAXIMUMRATINGS Operational Temperature -40

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

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)

PACKAGING CONFIGUREATION

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

