

PRODUCT: TSM-DE09.05

PRODUCT RANGE: 380-395W

395W+

0~+5W

20.5%

MAXIMUM POWER OUTPUT POSITIVE POWER TOLERANCE **MAXIMUM EFFICIENCY**



Outstanding visual appearance

- Designed with aesthetics in mind
- Excellent cell color control by dedicated cell blackening treatment and machine selection.
- Thinner wires that appear all black at a distance



High customer value

- Lowest guaranteed first year and annual degradation;
- Designed for compatibility with existing mainstream system components
- Higher return on Investment



High power up to 395W

- Up to 20.5% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



High reliability

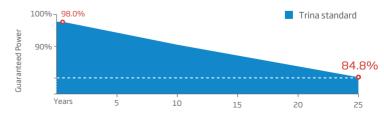
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



High energy yield

- 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



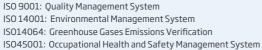
Comprehensive Products and System Certificates IEC61215/IEC61730/IEC61701/IEC62716











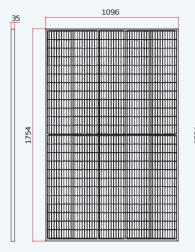


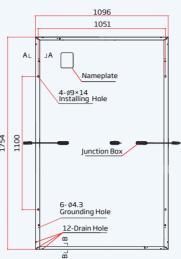


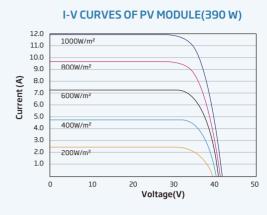


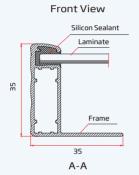


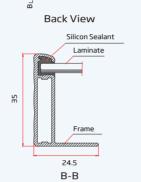
DIMENSIONS OF PV MODULE(mm)



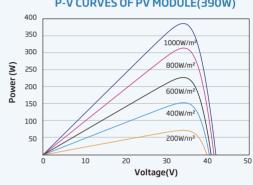








P-V CURVES OF PV MODULE(390W)



ELECTRICAL DATA (STC)

| Peak Power Watts-PMAX (Wp)* | 380 | 385 | 390 | 395 | |
|--|--------|-------|-------|-------|--|
| Power Tolerance-PMAX (W) | 0 ~ +5 | | | | |
| Maximum Power Voltage-VMPP (V) | 33.6 | 33.8 | 34.0 | 34.0 | |
| Maximum Power Current-IMPP (A) | 11.31 | 11.39 | 11.47 | 11.62 | |
| Open Circuit Voltage-Voc (V) | 40.6 | 40.8 | 41.0 | 41.2 | |
| Short Circuit Current-Isc (A) | 11.83 | 11.90 | 11.97 | 12.03 | |
| Module Efficiency η m (%) | 19.8 | 20.0 | 20.3 | 20.5 | |
| STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%. | | | | | |

MECHANICAL DATA

| Solar Cells | Monocrystalline | | |
|----------------------|--|--|--|
| No. of cells | 120 cells | | |
| Module Dimensions | 1754×1096×35 mm (69.06×43.15×1.38 inches) | | |
| Weight | 21.2 kg (46.7 lb) | | |
| Glass | 3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass | | |
| Encapsulant material | EVA | | |
| Backsheet | Black-White | | |
| Frame | 35mm(1.38 inches) Anodized Aluminium Alloy | | |
| J-Box | IP 68 rated | | |
| Cables | Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 280/280 mm(11.02/11.02 inches) Landscape: 1100/1100 mm(43.31/43.31 inches) | | |
| Connector | MC4 EV02 / TS4* | | |

Please refer to regional datasheet for specified connector.

ELECTRICAL DATA (NOCT)

| Maximum Power-PMAX (Wp) | 287 | 290 | 295 | 298 |
|--------------------------------|------|------|------|------|
| Maximum Power Voltage-VMPP (V) | 31.7 | 31.9 | 32.3 | 32.5 |
| Maximum Power Current-IMPP (A) | 9.04 | 9.10 | 9.13 | 9.18 |
| Open Circuit Voltage-Voc (V) | 38.2 | 38.4 | 38.6 | 38.7 |
| Short Circuit Current-Isc (A) | 9.53 | 9.59 | 9.65 | 9.69 |

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

TEMPERATURE RATINGS

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

| | | 4047 | |
|-----|------|-------|------|
| MAX | IMUI | 1KA I | INGS |

Operational Temperature -40~+85°C Maximum System Voltage 1500V DC (IEC) Max Series Fuse Rating 20A

WARRANTY

12 year Product Workmanship Warranty 25 year Power Warranty 2% first year degradation 0.55% Annual Power Attenuation

se refer to product warranty for details)

PACKAGING CONFIGUREATION

Modules per box: 31 pieces Modules per 40' container: 806 pieces

