

PRODUCT: TSM-DE09.05

PRODUCT RANGE: 380-395W

395W+

MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

20.5%

**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



### Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space.
- Up to 395W, 20.5% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection
- Reduce installation cost with higher power bin and efficieny
- Boost performance in warm weather lower temperature coefficient (-0.34%) and operating temperature



### Universal solution for residential and C&I rooftops

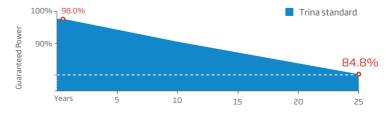
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment



### **High Reliability**

- 15 year product warranty
- 25 year performance warranty with lowest degradation;
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load

# Trina Solar's Backsheet Performance Warranty



# Comprehensive Products and System Certificates







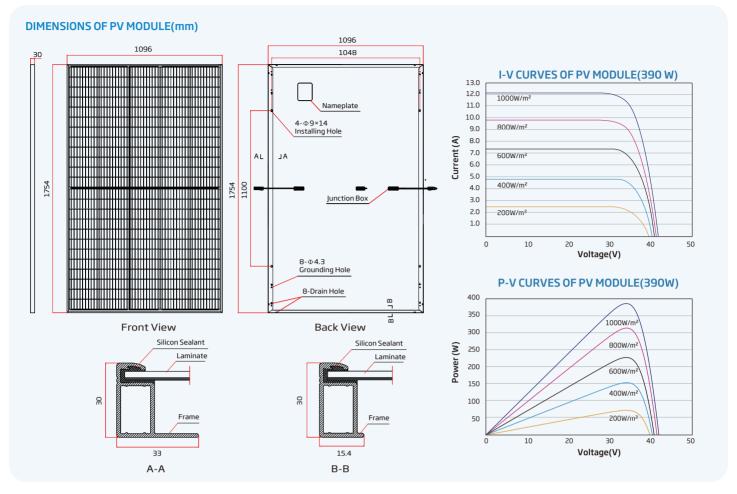




ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System







#### ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	380	385	390	395
Power Tolerance-PMAX (W)		0 ~	+5	
Maximum Power Voltage-V <sub>MPP</sub> (V)	33.4	33.6	33.8	34.0
Maximum Power Current-Impp (A)	11.38	11.46	11.54	11.62
Open Circuit Voltage-Voc (V)	40.4	40.6	40.8	41.0
Short Circuit Current-Isc (A)	12.00	12.07	12.14	12.21
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: $\pm 3\%$ .

### **ELECTRICAL DATA (NOCT)**

Maximum Power-PMAX (Wp)	286	290	294	298
Maximum Power Voltage-VMPP (V)	31.4	31.6	31.8	31.9
Maximum Power Current-IMPP (A)	9.12	9.18	9.24	9.32
Open Circuit Voltage-Voc (V)	38.0	38.2	38.4	38.6
Short Circuit Current-Isc (A)	9.67	9.73	9.78	9.84

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

#### MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm (69.06×43.15×1.18 inches)
Weight	21.0 kg (46.3 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	Black-White
Frame	30mm(1.18 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) Length can be customized
Connector	MC4 EV02 / TS4*

<sup>\*</sup>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%/℃

### WARRANTY

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

(Please refer to product warranty for details)

### MAXIMUMRATINGS

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

### PACKAGING CONFIGUREATION

Modules per box: 36 pieces Modules per 40' container: 936 pieces



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