

PRODUCT: TSM-DE09.08

PRODUCT RANGE: 390-405W

405W+

MAXIMUM POWER OUTPUT

0~+5W

21.1%

POSITIVE POWER TOLERANCE

MAXIMUM EFFICIENCY





## Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space. Up to 405W, 21.1% 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 efficiency
- Boost performance in warm weather with lower temperature coefficient (-0.34%) and operating temperature



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

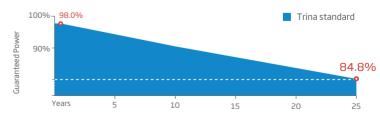
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment



## **High Reliability**

- 15 year product warranty
- 25 year performance warranty with lowest degradation;
- 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









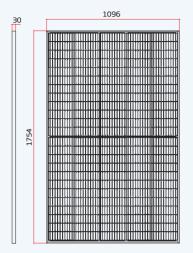


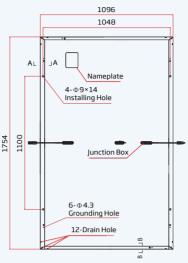
ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System

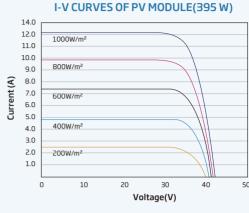


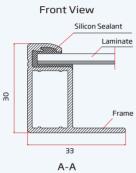


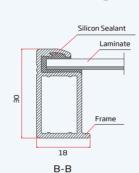
### **DIMENSIONS OF PV MODULE(mm)**

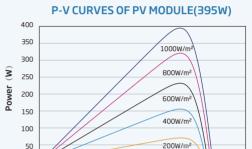












30 Voltage(V)

10

#### ELECTRICAL DATA (STC)

390	395	400	405
	0~	+5	
33.8	34.0	34.2	34.4
11.54	11.62	11.70	11.77
40.8	41.0	41.2	41.4
12.14	12.21	12.28	12.34
20.3	20.5	20.8	21.1
	33.8 11.54 40.8 12.14	0 ~  33.8 34.0  11.54 11.62  40.8 41.0  12.14 12.21	0~+5       33.8     34.0     34.2       11.54     11.62     11.70       40.8     41.0     41.2       12.14     12.21     12.28

# $STC: Irr diance 1000W/m2, Cell Temperature 25 °C, Air Mass AM1.5. ~ ^*Measuring tolerance: \pm 3\%.$

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

Maximum Power-PMAX (Wp)	295	298	302	306
Maximum Power Voltage-V <sub>MPP</sub> (V)	31.8	32.0	32.2	32.5
Maximum Power Current-Impp (A)	9.26	9.32	9.38	9.41
Open Circuit Voltage-Voc (V)	38.4	38.6	38.8	38.9
Short Circuit Current-Isc (A)	9.78	9.84	9.90	9.95

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	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) Landscape: 1100/1100 mm(43.31/43.31 inches)
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%/°C

MAXIMUMRATINGS	
Operational Temperature	-40~

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

### 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)

### PACKAGING CONFIGUREATION

Modules per box: 36 pieces

Modules per 40' container: 936 pieces

