

PRODUCT: TSM-DE09.08

PRODUCT RANGE: 390-410W

410W

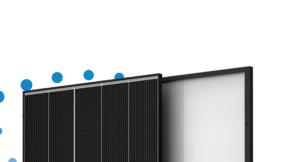
MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

21.3%

MAXIMUM EFFICIENCY





Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space. Up to 410W, 21.3% 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

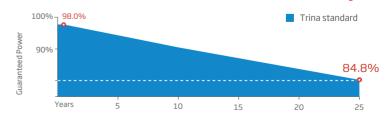
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment

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



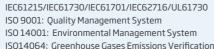
Comprehensive Products and System Certificates







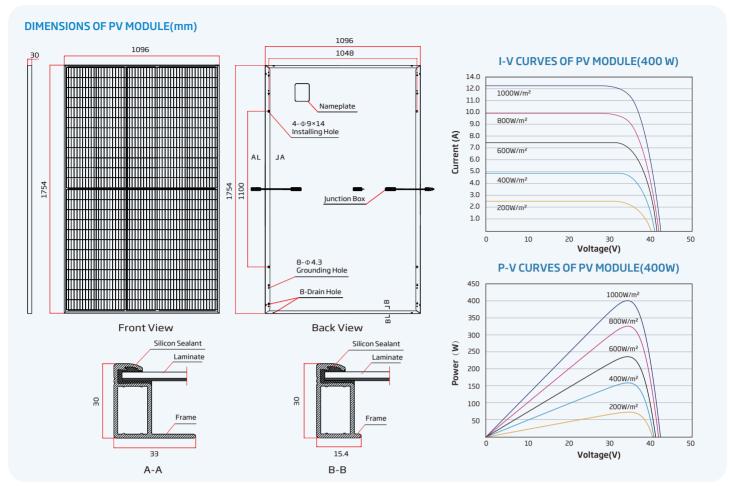




ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System







ELECTRICAL DATA (STC)

405 410
-5
2 34.4 34.6
0 11.77 11.85
2 41.4 41.6
8 12.34 12.40
3 21.1 21.3

STC: Irrdiance 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	310
Maximum Power Voltage-V _{MPP} (V)	31.8	32.0	32.2	32.5	32.8
Maximum Power Current-IMPP (A)	9.26	9.32	9.38	9.41	9.46
Open Circuit Voltage-Voc (V)	38.4	38.6	38.8	38.9	39.1
Short Circuit Current-Isc (A)	9.78	9.84	9.90	9.95	9.99

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) 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

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

