Mono

Preliminary



PRODUCT: TSM-DE09.05

PRODUCT RANGE: 380-395W

395W+

MAXIMUM POWER OUTPUT

0~+5W

20.5%

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

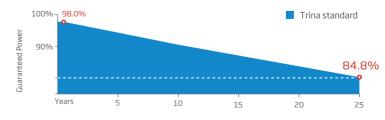
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



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

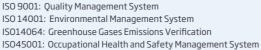
IEC61215/IEC61730/IEC61701/IEC62716











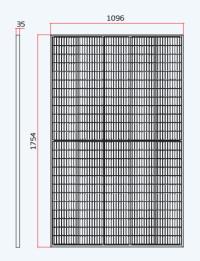


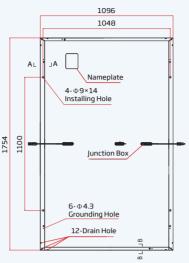


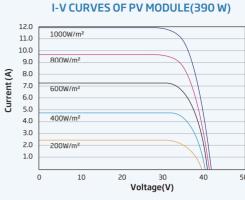


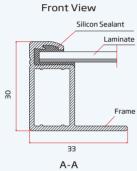


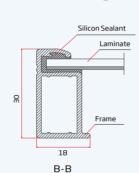
DIMENSIONS OF PV MODULE(mm)

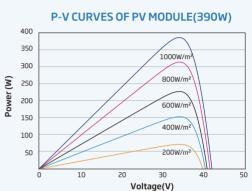












ELECTRICAL DATA (STC)

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%.				

ELECTRICAL DATA (NOCT)

Maximum Power-PMAX (Wp)	287	290	295	298
Maximum Power Voltage-V _{MPP} (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.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm (69.06×43.15×1.18 inches)
Weight	21.3 kg (47.0 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA
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) Landscape: 1100/1100 mm(43.31/43.31 inches)
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~+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

Please refer to product warranty for details)

PACKAGING CONFIGUREATION

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

