THE TALMAX FRAMED 144 LAYOUT MODULE

144 LAYOUT MONOCRYSTALLINE MODULE

380-410W POWER OUTPUT RANGE

20.4%

0~+5W POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

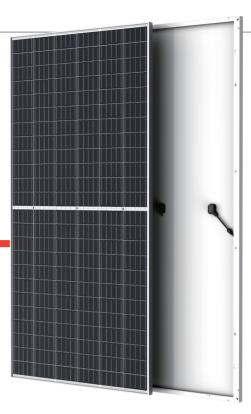
Comprehensive Products and System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716 ISO 9001: Quality Management System ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification OHSAS 18001: Occupation Health and Safety Management System





PRODUCTS TSM-DE15H(II) POWER RANGE 380-410W



High power

- Up to 410W front power and 20.4% module efficiency with half-cut technology bringing more BOS savings
- Lower resistance of half-cut ensure high power



High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load



High energy generation

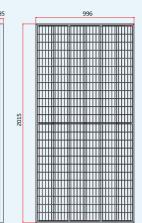
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.36%) and NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature

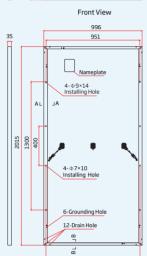


TALLMAX[®]

144 LAYOUT MODULE

DIMENSIONS OF PV MODULE(mm)





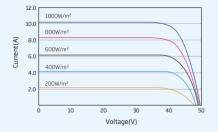
Back View Silicon Sealant Laminate Frame 35 24.5

954

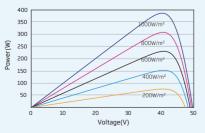
B-B

I-V CURVES OF PV MODULE(390W)

A-A



P-V CURVES OF PV MODULE(390W)



Trinasolar

ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	380	385	390	395	400	405	410
Power Output Tolerance-P _{MAX} (W)				0~+5			
Maximum Power Voltage-V _{MPP} (V)	39.6	40.1	40.5	40.8	41.1	41.4	41.7
Maximum Power Current-Impp (A)	9.59	9.61	9.64	9.69	9.74	9.79	9.84
Open Circuit Voltage-Voc (V)	48.1	48.5	49.7	50.1	50.4	50.8	51.2
Short Circuit Current-Isc (A)	9.99	10.03	10.08	10.13	10.18	10.23	10.29
Module Efficiency η _m (%)	18.9	19.2	19.4	19.7	19.9	20.2	20.4

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measurement tolerance: ±3%.

ELECTRICAL DATA (NMOT)

м

Maximum Power-P _{MAX} (Wp)	287	291	296	299	303	307	311
Maximum Power Voltage-V _{MPP} (V)	37.6	37.9	38.6	38.9	39.1	39.4	39.7
Maximum Power Current-Impp (A)	7.64	7.68	7.66	7.70	7.74	7.78	7.82
Open Circuit Voltage-Voc (V)	45.4	45.8	46.9	47.3	47.6	47.9	48.3
Short Circuit Current-Isc (A)	8.05	8.08	8.12	8.16	8.20	8.24	8.29

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

MECHANICAL DATA	
Solar Cells	Monocrystalline
Cell Orientation	144 cells (6 × 24)
Module Dimensions	2015 × 996 × 35 mm (79.33× 39.21× 1.38 inches)
Weight	22.0 kg (48.5 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
EncapsulantMaterial	EVA
Backsheet	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 140mm/P 285mm(5.51/11.22inches) Landscape: N 1700 mm /P 1700 mm (66.93/66.93 inches)
Connector	MC4 / TS4*

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS				
NMOT(Nominal Module OperatingTemperature)	41°C (±3°C)			
Temperature Coefficient of PMAX	- 0.36%/°C			
Temperature Coefficient of Voc	- 0.26%/°C			
Temperature Coefficient of Isc	0.04%/°C			

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection

WARRANTY

10 year Product Workmanship Warranty

25 year Power Warranty

(Please refer to product warranty for details)

MAXIMUM RATINGS

Operational Temperature

Maximum System Voltage

Max Series Fuse Rating	20A
nection)	

-40~+85°C

1500V DC (IEC)

1500V DC (UL)

PACKAGING CONFIGURATION

- Modules per box: 30 pieces
- Modules per 40' container: 660 pieces

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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