THE TALMAX FRAMED 72 LAYOUT MODULE

72 LAYOUT MONOCRYSTALLINE MODULE

380-410W

20.2% MAXIMUM EFFICIENCY

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

Management System





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





Ideal for large scale installations

• Reduce BOS cost with higher power bin and 1500V system voltage

Half-cell design brings higher efficiency

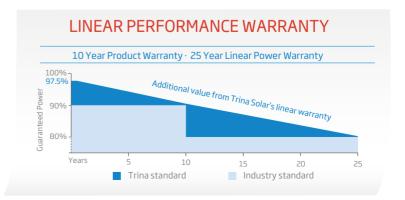
- •New cell string layout and split J-box location to reduce the energy loss caused by shading between modules
- Low thermal coefficients for greater energy production at high operating temperature
- Low cell connection power loss due to half-cell layout(144 monocrystalline)

Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Internal test requirement of Trina more stringent than certification authority
- PID resistant
- 100% EL double inspection

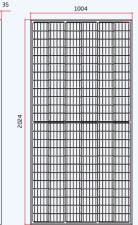
Certified to withstand the most challenging environmental conditions

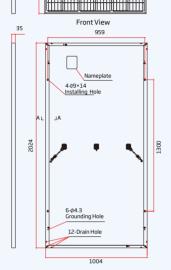
- 2400 Pa negative load
- 5400 Pa positive load
- * 2400/5400 is the measured load, and the safety factor is 1.5 times



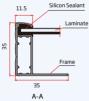
TALLMAX®

DIMENSIONS OF PV MODULE(mm)

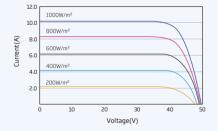




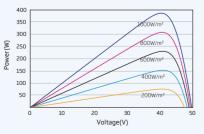
Back View



I-V CURVES OF PV MODULE(390W)



P-V CURVES OF PV MODULE(390W)



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 (%)	18.7	18.9	19.2	19.4	19.7	19.9	20.2

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

ELECTRICAL DATA (NMOT)

Maximum Power-P _{MAX} (Wp)	287	291	295	298	302	306	310
Maximum Power Voltage-V _{MPP} (V)	37.4	37.9	38.4	38.7	38.9	39.1	39.3
Maximum Power Current-IMPP (A)	7.66	7.67	7.68	7.71	7.76	7.81	7.86
Open Circuit Voltage-Voc (V)	44.4	45.6	46.8	47.2	47.4	47.6	47.8
Short Circuit Current-Isc (A)	8.05	8.09	8.13	8.17	8.21	8.25	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	2024 × 1004 × 35 mm (79.69 × 39.53 × 1.38 inches)
Weight	22.8kg (50.3lb)
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 1400 mm /P 1400 mm (55.12/55.12 inches)
Connector	MC4 EV02/TS4

TEMPERATURE RATINGS	
NMOT(Nominal Module OperatingTemperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.37%/°C
Temperature Coefficient of Voc	- 0.29%/°C
Temperature Coefficient of Isc	0.05%/°C

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

WARRANTY

- 10 year Product Workmanship Warranty
- 25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

MAXIMUM RATINGS

Operational Temperature

Maximum System Voltage

Max Series Fuse Rating

-40~+85°C

1500V DC (IEC)

1500V DC (UL)

20A

- 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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72 LAYOUT MODULE