THE

TALLMAX®

FRAMED 72 LAYOUT MODULE

72 LAYOUT

MONOCRYSTALLINE MODULE

380-410W

POWER OUTPUT RANGE

20.2% MAXIMUM EFFICIENCY

0~+5W

POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading total solutions 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











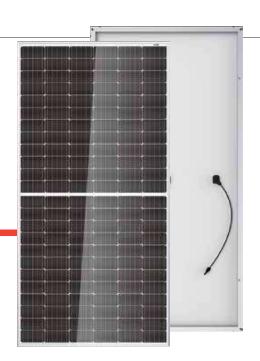






PRODUCTS
TSM-DE15H(II)

POWER RANGE 380-410W





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)
- Passivated Emitter and Rear Cell (PERC Technology)



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



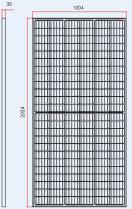
Certified to withstand the most challenging environmental conditions

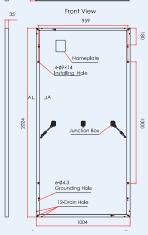
- 2400 Pa negative load
- 5400 Pa positive load
- * 2400/5400 is the measured load, and the safety factor is 1.5 times

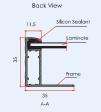




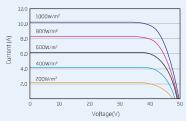
DIMENSIONS OF PV MODULE(mm)



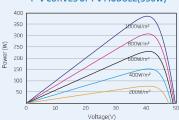




I-V CURVES OF PV MODULE(390W)



P-V CURVES OF PV MODULE(390W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	380	385	390	395	400	405	410
Power Output Tolerance-PMAX (W)	0~+5						
Maximum Power Voltage-VMPP (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-V∞ (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 ηπ (%)	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: $\pm 3\%$.

ELECTRICAL DATA (NOCT)

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

 $NMOT: Irradiance at 800W/m^2, Ambient Temperature 20°C, Wind Speed 1m/s. \\$

MECHANICAL DATA

TEMPERATURE RATINGS

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

MAXIMUM RATINGS

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

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

Country of origin: China

10 year Product Workmanship Warranty 25 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

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



