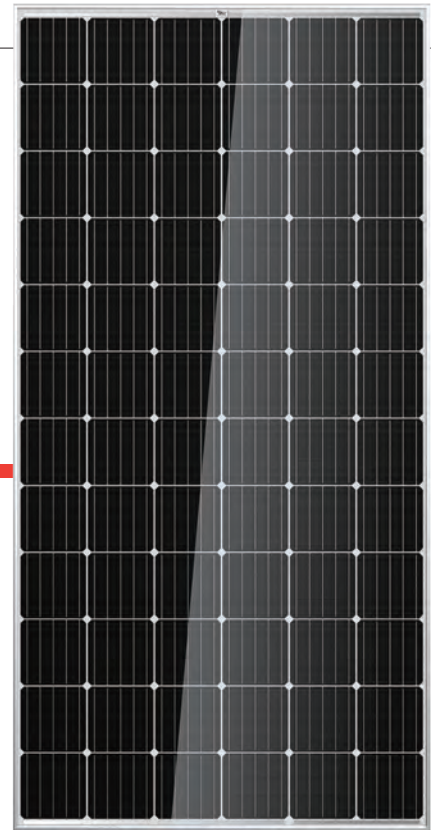


THE

# TALLMAX<sup>M</sup> PLUS<sup>+</sup>

FRAMED 72-CELL MODULE (1500V)



**72 CELL**  
MONOCRYSTALLINE MODULE

**340-380W**  
POWER OUTPUT RANGE

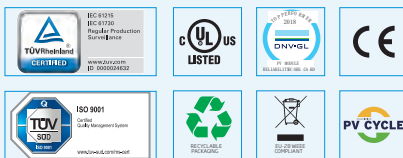
**19.5%**  
MAXIMUM EFFICIENCY

**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  
 ISO 14064: Greenhouse gases Emissions Verification  
 OHSAS 18001: Occupation Health and Safety Management System



### Ideal for large scale installations

- Reduce BOS cost by connecting more modules in a string
- 1500V UL/1500V IEC certified



### Maximize limited space with top-end efficiency

- Up to 193 W/m<sup>2</sup> power density
- Low thermal coefficients for greater energy production at high operating temperatures



### Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Increased module robustness to minimize micro-cracks
- PID resistant and free of snail trails
- Internal test requirement of Trina more stringent than certification authority

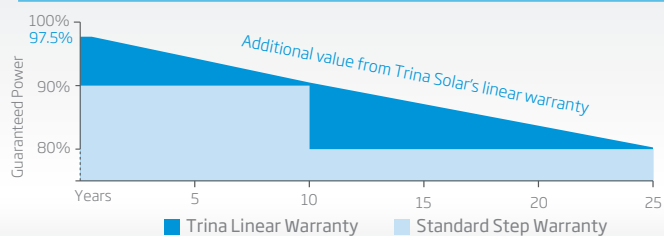


### Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load

## LINEAR PERFORMANCE WARRANTY

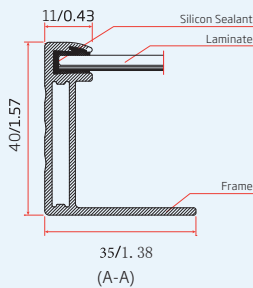
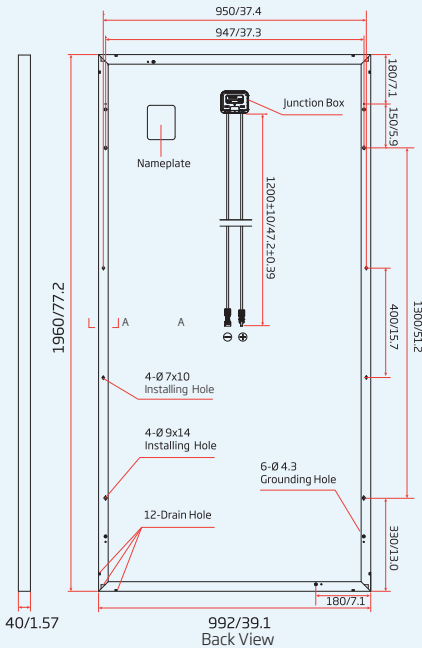
10 Year Product Warranty · 25 Year Linear Power Warranty



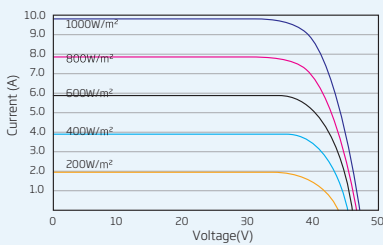
**PRODUCTS POWER RANGE**

TSM-DE14A(II) STD MONO 340 - 365W  
 TSM-DE14A(II) PERC MONO 370 - 380W

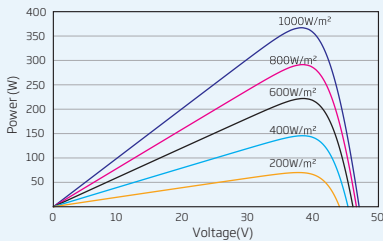
**DIMENSIONS OF PV MODULE(mm/inches)**



**I-V CURVES OF PV MODULE(365W)**



**P-V CURVES OF PV MODULE(365W)**



**ELECTRICAL DATA (STC)**

Peak Power Watts- $P_{MAX}$ (Wp)*	340	345	350	355	360	365	370	375	380
Power Output Tolerance- $P_{MAX}$ (W)	0 ~ +5								
Maximum Power Voltage- $V_{MPP}$ (V)	38.2	38.5	38.7	38.8	39.0	39.3	39.7	40.0	40.3
Maximum Power Current- $I_{MPP}$ (A)	8.90	8.96	9.04	9.14	9.24	9.30	9.33	9.37	9.43
Open Circuit Voltage- $V_{OC}$ (V)	46.2	46.7	47.0	47.4	47.7	48.0	48.3	48.5	48.8
Short Circuit Current- $I_{SC}$ (A)	9.50	9.55	9.60	9.65	9.70	9.77	9.83	9.88	9.94
Module Efficiency $\eta_m$ (%)	17.5	17.7	18.0	18.3	18.5	18.8	19.0	19.3	19.5

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
 \*Measuring tolerance: ±3%.

**ELECTRICAL DATA (NOCT)**

Maximum Power- $P_{MAX}$ (Wp)	253	257	261	264	268	272	276	279	283
Maximum Power Voltage- $V_{MPP}$ (V)	35.4	35.7	35.9	36.0	36.2	36.4	36.8	37.1	37.2
Maximum Power Current- $I_{MPP}$ (A)	7.15	7.20	7.26	7.34	7.42	7.47	7.50	7.53	7.60
Open Circuit Voltage- $V_{OC}$ (V)	42.9	43.4	43.7	44.1	44.3	44.6	44.9	45.1	45.3
Short Circuit Current- $I_{SC}$ (A)	7.67	7.71	7.75	7.79	7.83	7.89	7.94	7.98	8.03

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

**MECHANICAL DATA**

Solar Cells	Monocrystalline 156.75 × 156.75 mm (6 inches)
Cell Orientation Module	72 cells (6 × 12)
Dimensions	1960 × 992 × 40 mm (77.2 × 39.1 × 1.57 inches)
Weight	22.5 kg (49.6 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Encapsulant Material	EVA (White/Transparent)
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> )
	1200 mm (47.2 inches)
Connector	Trina TS4
Fire Type	Type 1 or Type 2

**TEMPERATURE RATINGS**

NOCT (Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of $P_{MAX}$	-0.39%/°C
Temperature Coefficient of $V_{OC}$	-0.29%/°C
Temperature Coefficient of $I_{SC}$	0.05%/°C

**MAXIMUM RATINGS**

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC) 1500V DC (UL)
Max Series Fuse Rating	15A (Power ≤ 350W) 20A (Power ≥ 355W)

(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**

Modules per box: 27 pieces
Modules per 40' container: 648 pieces