THE

TALMAX®plus*

FRAMED 144 HALF-CELL MODULE

144-Cell MONOCRYSTALLINE MODULE

345-395W

POWER OUTPUT RANGE

19.9% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading comprehensive solutions provider for solar energy. we believe ciose cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

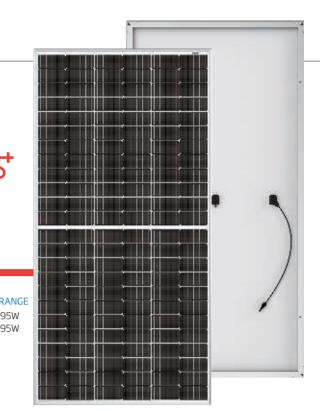
Comprehensive Products And System Certificates

IEC61215/UL1703/IEC61730/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	COLOR OF FRAME	POWER RANG
TSM-DE14H(II)	Silver	345-395W
TSM-DE14H.08(II)	Black	345-395W





Increased value

Reduce BOS cost with high power bin and 1500V system voltage
Low thermal coefficients for greater energy production at higher temperature

Half-cell design brings higher efficiency

- •New cell string layout and split J-box location to reduce the energy loss caused by inter-row shading
- Integrated LRF(Light Redirecting Film) to enhance power, specially for ground-mount applications
- Lower cell connection power losses due to half-cell layout (144 monocrystalline)



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

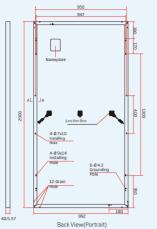


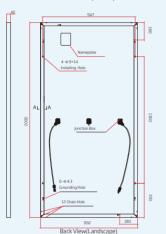
Certified to withstand the most challenging environmental conditions

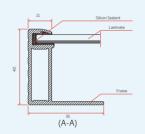
- •2400 Pa negative load
- 5400 Pa positive load



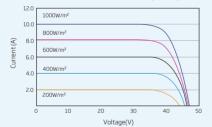
DIMENSIONS OF PV MODULE(mm)



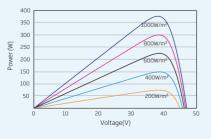




I-V CURVES OF PV MODULE(375W)



P-V CURVES OF PV MODULE(375W)



ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	345	350	355	360	365	370	375	380	385	390	395
Power Output Tolerance-P _{MAX} (W)	0~+5										
Maximum Power Voltage-V _{MPP} (V)	38.2	38.4	38.6	38.8	39.0	39.2	39.4	39.6	40.1	40.5	40.8
Maximum Power Current-Impp (A)	9.04	9.13	9.21	9.28	9.37	9.44	9.52	9.60	9.61	9.64	9.69
Open Circuit Voltage-Voc (V)	46.3	46.5	46.9	47.2	47.4	47.6	47.8	48.0	48.5	49.7	50.1
Short Circuit Current-Isc (A)	9.55	9.60	9.68	9.73	9.83	9.88	9.93	9.99	10.03	10.08	10.13
Module E°ciency η_m (%)	17.4	17.6	17.9	18.1	18.4	18.6	18.9	19.2	19.4	19.7	19.9

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

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	257	261	265	268	272	276	280	284	287	291	295
Maximum Power Voltage-V _{MPP} (V)	35.4	35.7	35.9	36.2	36.3	36.6	36.9	37.1	37.4	37.9	38.3
Maximum Power Current-IMPP (A)	7.26	7.32	7.38	7.42	7.49	7.54	7.59	7.64	7.67	7.68	7.74
Open Circuit Voltage-Voc (V)	43.2	43.3	43.7	44.0	44.2	44.4	44.5	44.7	45.2	46.3	46.5
Short Circuit Current-Isc (A)	7.71	7.75	7.82	7.86	7.94	7.98	8.02	8.07	8.10	8.14	8.17
NOCT: Irradiance at 800W/m, , Ambient Temperature 20°C, Wind Speed 1m/s.											

MECHANICAL DATA

Solar Cells	Monocrystalline 156.75 × 78.375 mm (6.17 × 3.09 inches)
Cell Orientation	144 cells (6 × 24)
Module Dimensions	2000 × 992 × 40 mm (78.74 × 39.06 × 1.57 inches)
Weight	23 kg (50.7 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA(White/Transparent)
Backsheet	White
Frame	40 mm (1.57 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²), Portrait: N 140mm/P 285mm (5.51/11.22 inches) Landscape: N 1400 mm /P 1400 mm (55.12/55.12 inches)
Connector	TS4

TEMPERATURE RATINGS					
NOCT (Nominal Operating Cell Temperature)	44°C (±2°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)

MAXIMUM RATINGS

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

PACKAGING CONFIGURATION

- Modules per box: 27 pieces
- Modules per 40' container: 594 pieces

Trinasolar

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

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