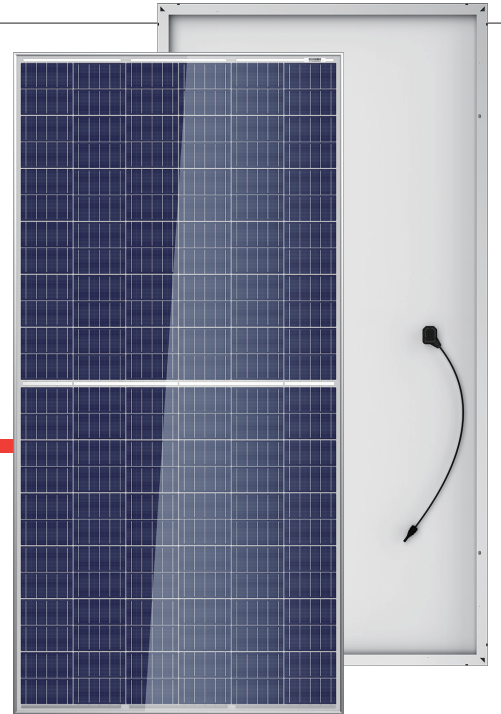


THE TALLMAX

FRAMED 144 HALF-CELL MODULE



144-Cell
MULTICRYSTALLINE MODULE

340-355W
POWER OUTPUT RANGE

17.5%
MAXIMUM EFFICIENCY

0~+5W
POSITIVE POWER TOLERANCE

PRODUCTS	COLOR OF FRAME	POWER RANGE
TSM-PE15H	Silver	340-355W



High power output

- Reduce BOS cost with high power bin and 1500V system voltage
- New cell string layout and split J-box location reduces the energy loss caused by inter-row shading
- Lower resistance of half-cut cells ensures higher power



High energy generation, low LCOE

- Excellent 3rd party validated IAM and low light performance with cell process and module material optimization
- Integrated LRF(Light Redirecting Film) to enhance power
- Better anti-shading performance and lower operating temperature



Certified to perform in highly challenging environments

- High PID resistance through cell process and module material control
- Resistant to salt, acid, sand, and ammonia
- Certified to 5400 Pa positive load and 2400 Pa negative load



Easy to install, wide application

- Frame design enables compatibility with standard installation methods
- Deployable for ground mounted and rooftop projects
- Safe and easy to transport, handle, and install

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.

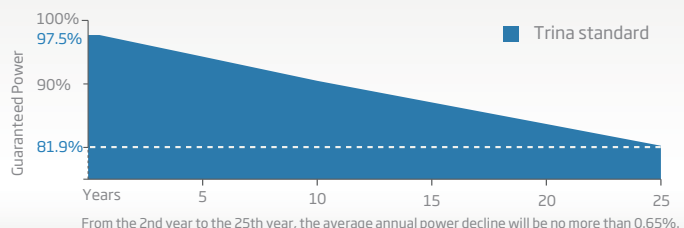
Comprehensive Products and System Certificates

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

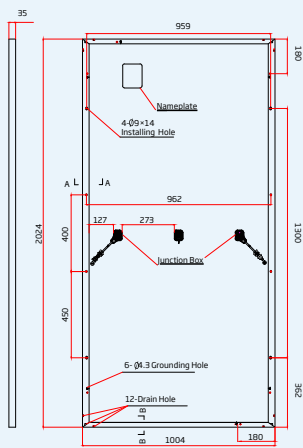


PERFORMANCE WARRANTY

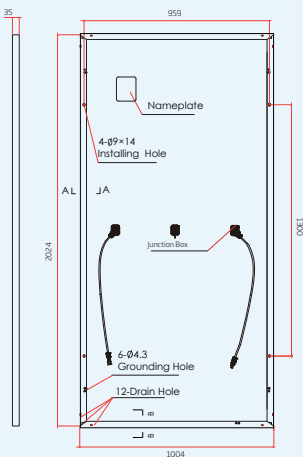
10 Year Product Warranty · 25 Year Power Warranty



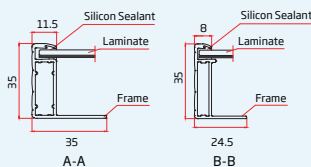
DIMENSIONS OF PV MODULE (mm)



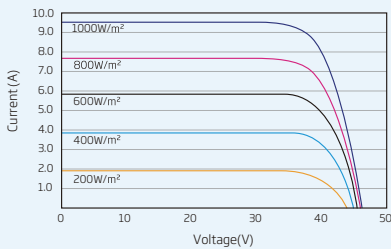
Back View(Portrait)



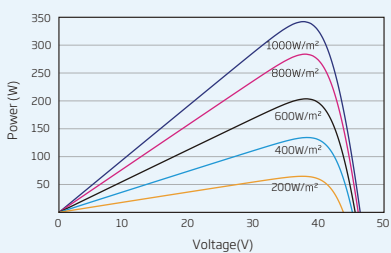
Back View(Landscape)



I-V CURVES OF PV MODULE (345W)



P-V CURVES OF PV MODULE (345W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	340	345	350	355
Power Output Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MPP} (V)	37.5	37.7	37.9	38.1
Maximum Power Current- I_{MPP} (A)	9.06	9.15	9.23	9.32
Open Circuit Voltage- V_{OC} (V)	46.2	46.4	46.7	47.0
Short Circuit Current- I_{SC} (A)	9.53	9.62	9.71	9.81
Module Efficiency η_m (%)	16.7	17.0	17.2	17.5

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

ELECTRICAL DATA (NMOT)

Maximum Power- P_{MAX} (Wp)	257	261	265	269
Maximum Power Voltage- V_{MPP} (V)	35.5	35.7	35.9	36.1
Maximum Power Current- I_{MPP} (A)	7.24	7.31	7.37	7.45
Open Circuit Voltage- V_{OC} (V)	43.5	43.7	44.0	44.2
Short Circuit Current- I_{SC} (A)	7.69	7.76	7.83	7.91

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

MECHANICAL DATA

Solar Cells	Multicrystalline
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
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38inches) Anodized Aluminium Alloy w/400mm Mounting Holes
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²) Portrait: N 140mm/P 285mm (5.51/11.22inches) Landscape: N 1400 mm /P 1400 mm (55.12/55.12 inches)
Connector	TS4

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of P_{MAX}	-0.38%/°C
Temperature Coefficient of V_{OC}	-0.31%/°C
Temperature Coefficient of I_{SC}	0.05%/°C

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

MAXIMUM RATINGS

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

WARRANTY

- 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

