TALLMAX

TSM-PF15H



340-355W

POWER OUTPUT RANGE

17.5% 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 close cooperation with our partners is critical to success. Trina Solar now distributes its PV products to over 60 countries all over the world. Trina Solar is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina Solar as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners.

Comprehensive Product And System Certificates

IEC61215/IEC61730/UL1703 IEC61701 Salt Mist Corrosion IEC62716 Ammonia Corrosion IEC60068 Blowing Sand ISO9001; ISO14001; OHSAS18001





















Ideal for large scale installations

- Reduced BOS costs with higher power bins and 1,500V system voltage
- Consistently high bankability ratings by BNEF, banks and investors



Half-cut cell design brings higher efficiency

- Optimized power output under inter-row shading conditions
- Integrated LRF for increased performance
- Low thermal coefficients for higher energy yield at elevated operating temperatures
- Reduced interconnection losses



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF, and many more)
- In-house testing goes well beyond certification requirements
- PID resistant
- 2x 100% inline EL inspection



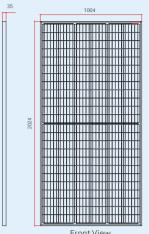
Certified to withstand challenging environmental conditions

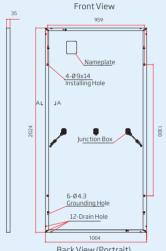
- Salt Mist Corrosion
- Ammonia Corrosion
- Blowing Sand

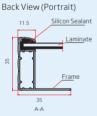




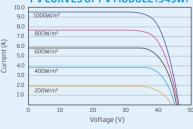
DIMENSIONS OF PV MODULE TSM-PE15H (unit: mm)

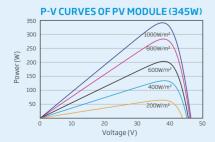






I-V CURVES OF PV MODULE (345W)





| ELECTRICAL DATA @ STC | TSM-340 PE15H | TSM-345 PE15H | TSM-350 PE15H | TSM-355 PE15H |
|--------------------------------------|------------------|------------------|------------------|------------------|
| Peak Power Watts-PMAX (Wp)* | 340 | 345 | 350 | 355 |
| Power Output Tolerance-PMAX (W) | 0/+5 | 0/+5 | 0/+5 | 0/+5 |
| Maximum Power Voltage-UMPP(V) | 37.5 | 37.7 | 37.9 | 38.1 |
| Maximum Power Current-Impp (A) | 9.06 | 9.15 | 9.23 | 9.32 |
| Open Circuit Voltage-Uoc (V) | 46.2 | 46.4 | 46.7 | 47.0 |
| Short Circuit Current-Isc (A) | 9.53 | 9.62 | 9.71 | 9.81 |
| Module Efficiency η _m (%) | 16.7 | 17.0 | 17.2 | 17.5 |

STC: Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM1.5

Measuring tolerance: ±3%

| ELECTRICAL DATA @ NMOT | TSM-340 PE15H | TSM-345 PE15H | TSM-350 PE15H | TSM-355 PE15H |
|--|------------------|------------------|------------------|------------------|
| Maximum Power-P _{MAX} (Wp) | 257 | 261 | 265 | 269 |
| Maximum Power Voltage-UMPP (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-Uoc (V) | 43.5 | 43.7 | 44.0 | 44.2 |
| Short Circuit Current-Isc (A) | 7.69 | 7.76 | 7.83 | 7.91 |

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

MECHANICAL DATA

| Solar Cells | Multicrystalline |
|----------------------|--|
| Cell Orientation | 144 cells (6 x 24) |
| Module Dimensions | 2024 × 1004 × 35 mm |
| Weight | 22.8 kg |
| Glass | 3.2 mm, High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant Material | EVA |
| Backsheet | White |
| Frame | 35 mm Anodized Aluminium Alloy |
| J-Box | IP 68 rated |
| Cables | Photovoltaic Cable 4.0mm², Portrait: N 140mm/P 285mm, Landscape: N 1400 mm /P 1400 mm |
| Connector | TS4 |

TEMPERATURE RATINGS

| NMOT (Nominal Module Operating Temperature) | 41°C (±3K) |
|--|------------|
| Temperature Coefficient of PMAX | - 0.38%/K |
| Temperature Coefficient of Uoc | - 0.31%/K |
| Temperature Coefficient of Isc | 0.05%/K |

PACKAGING CONFIGURATION

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

WARRANTY

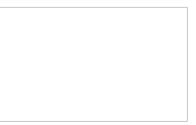
10 year Product Workmanship Warranty 25 year Linear Performance Warranty

(Please refer to product warranty for details)

MAXIMUM RATINGS

| Operational Temperature | -40 to +85°C | |
|-------------------------|-----------------------------------|--|
| Maximum System Voltage | 1500 V DC (IEC) 1500 V DC (UL) | |
| Max Series Fuse Rating | 20 A | |
| Snow Load | 5400 Pa (3600 Pa*) | |
| Wind Load | 2400 Pa (1600 Pa*) | |

*designload with safety factor 1.5 (DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)



TSM_EN_2019_A

