

# THE TALLMAX<sup>M</sup>

## FRAMED 110 LAYOUT MODULE



**110 LAYOUT**  
MONOCRYSTALLINE MODULE

**325-345W**  
POWER OUTPUT RANGE

**17.7%**  
MAXIMUM EFFICIENCY

**0~+5W**  
POSITIVE POWER TOLERANCE

PRODUCTS  
TSM-DE171H(II)

POWER RANGE  
325-345W

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/IEC61701/IEC62716  
ISO 9001: Quality Management System  
ISO 14001: Environmental Management System  
ISO14064: Greenhouse Gases Emissions Verification  
ISO45001: Occupational Health and Safety Management System



Certificate Holder: Trina Solar Co., Ltd.



### suitable size and parameter

- Suitable size for installation together with original modules
- Similar parameter with original modules



### Half-cell design brings higher efficiency

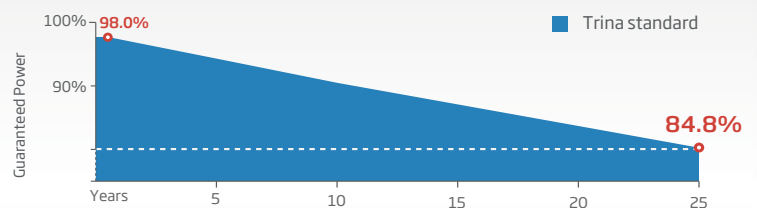
- Low thermal coefficients for greater energy production at high operating temperature
- Low cell connection power loss due to half-cell layout
- Certificated to fire class C



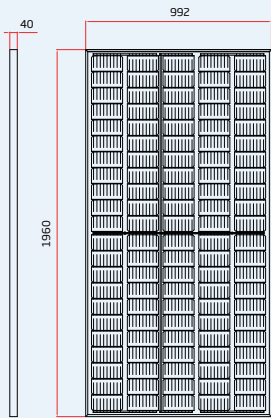
### High energy generation

- Better anti-shading performance and lower operating temperature
- process and module material optimization

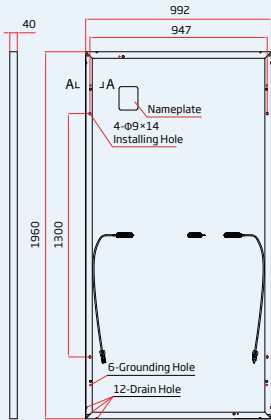
### PERFORMANCE WARRANTY



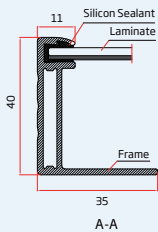
### DIMENSIONS OF PV MODULE(mm)



Front View

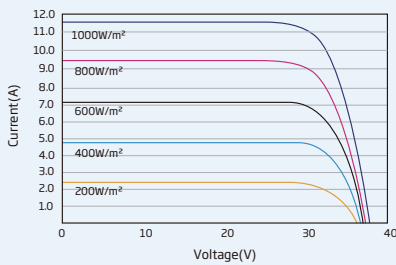


Back View

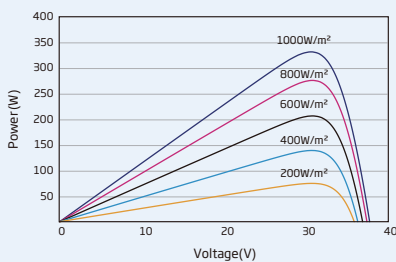


A-A

### I-V CURVES OF PV MODULE(335W)



### P-V CURVES OF PV MODULE(335W)



### ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	325	330	335	340	345
Power Tolerance-P <sub>MAX</sub> (W)	0 ~ +5				
Maximum Power Voltage-V <sub>MPP</sub> (V)	30.4	30.6	30.8	31.0	31.2
Maximum Power Current-I <sub>MPP</sub> (A)	10.70	10.80	10.93	11.01	11.07
Open Circuit Voltage-V <sub>OC</sub> (V)	37.0	37.2	37.4	37.6	37.7
Short Circuit Current-I <sub>SC</sub> (A)	11.30	11.40	11.51	11.60	11.68
Module Efficiency η <sub>m</sub> (%)	16.7	17.0	17.2	17.5	17.7

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

### ELECTRICAL DATA (NOCT)

Maximum Power-P <sub>MAX</sub> (Wp)	245	249	252	256	260
Maximum Power Voltage-V <sub>MPP</sub> (V)	28.5	28.7	28.8	29.0	29.2
Maximum Power Current-I <sub>MPP</sub> (A)	8.58	8.66	8.75	8.82	8.89
Open Circuit Voltage-V <sub>OC</sub> (V)	34.8	35.0	35.2	35.4	35.5
Short Circuit Current-I <sub>SC</sub> (A)	9.10	9.19	9.27	9.35	9.41

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

### MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	110 cells (11 × 10)
Module Dimensions	1960 × 992 × 40 mm (77.17 × 39.06 × 1.57 inches)
Weight	22.5 kg (49.6 lb)
Glass	3.2mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	40 mm (1.57 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ), Portrait: N 280mm/P 280mm(11.02/11.02inches) Landscape: N 1400 mm /P 1400 mm (55.12/55.12 inches)
Connector	Genuine MC4 evo2/TS4*

\*Please refer to regional datasheet for specified connector.

### TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P <sub>MAX</sub>	-0.34%/°C
Temperature Coefficient of V <sub>OC</sub>	-0.25%/°C
Temperature Coefficient of I <sub>SC</sub>	0.04%/°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)
Max Series Fuse Rating	20A

### WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

### PACKAGING CONFIGURATION

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

Country of Origin: China