



# THE TALLMAX PLUST

FRAMED 144 HALF-CELL MODULE

144-Cell

**MONOCRYSTALLINE MODULE** 

345-395W

**POWER OUTPUT RANGE** 

19.9%

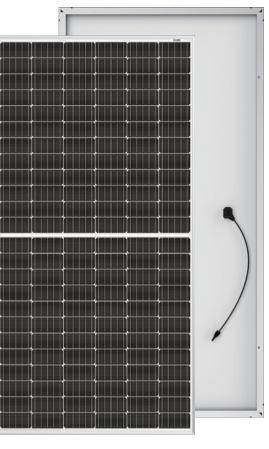
**MAXIMUM EFFICIENCY** 

0~+5W
POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading 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.



COLOR OF FRAME Silver POWER RANGE 345-395W 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

- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Better anti-shading performance and lower operating temperature



**UL 61730** 

IEC 61215 / IEC 61730 / IEC 61701 / IEC 62716
ISO 9001: Quality Management System I
SO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
OHSAS 18001: Occupation Health and Safety
Management System

















# Certified to withstand the most challenging environmental conditions

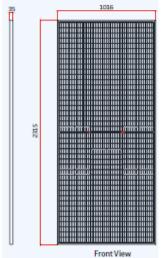
- 2400 Pa negative load
- 5400 Pa positive load

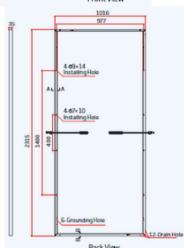


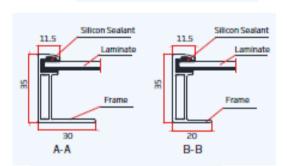
Email: <u>info@joginternational.com</u>
Website: <u>www.joginternational.com</u>

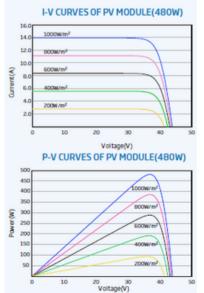


#### **DIMENSIONS OF PV MODULE(mm)**









# **ELECTRICAL DATA (STC)**

Peak Power Watts-PMAX (Wp)*	470	475	480	485	490
Power Output Tolerance-PMAX (W)	0~+5				
Maximum Power Voltage-VMPP (V)	36.1	36.2	36.3	36.4	36.5
Maximum Power Current-IMPP (A)	13.02	13.12	13.23	13.33	13.43
Open Circuit Voltage-VOC (V)	43	43.1	43.2	43.3	43.4
Short Circuit Current-ISC (A)	13.73	13.8	13.92	13.97	14.07
Module Eciency η m (%)	20	20.2	20.4	20.6	20.8

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

# **ELECTRICAL DATA (NOCT)**

Maximum Power-PMAX (Wp)	354	358	362	365	369
Maximum Power Voltage-VMPP (V)	33.6	33.8	33.9	34	34.1
Maximum Power Current-I MPP (A)	10.53	10.59	10.68	10.72	10.8
Open Circuit Voltage-VOC (V)	40.5	40.6	40.7	40.7	40.8
Short Circuit Current-ISC (A)	11.06	11.12	11.22	11.26	11.34

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

#### **MECHANICAL DATA**

Solar Cells	Monocrystalline PERC
Cell Orientation	252 cells (12 × 21)
Module Dimensions	2315 × 1016 × 35 mm (91.14 × 40 × 1.38 inches)
Weight	26.0 kg ( 57.3 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
	Photovoltaic Technology Cable 4.0mm (0.006 inches),
Cables	Portrait: N 450 mm/P 450 mm (17.72/17.72 inches),
	Landscape: N 1400/P 1400 mm (55.12/55.12 inches)
Connector	MC4 EVO2 / TS4

### **TEMPERATURE RATINGS**

NOCT(Nominal Operating Cell Temperatu	ıre) 43°C (±2°C)
Temperature Coecient of PMAX	-0.34%/°C
Temperature Coecient of VOC	-0.25%/°C
Temperature Coecient of ISC	0.04%/°C

#### **MAXIMUM RATINGS**

Operational Temperature	-40~+85°C
	1500V DC (IEC)
Maximum System Voltage	1500V DC (UL)
Max Series Fuse Rating	25A

#### **WARRANTY**

12 year Product Workmanship Warranty
25 year Power Warranty

(Please refer to product warranty for details)

### **PACKAGING CONFIGURATION**

Modules per box: 31 pieces

Modules per 40' container: 620 pieces





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<sup>\*</sup>Measurement tolerance: ±3%.

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