THE



# 120 LAYOUT

MONOCRYSTALLINE MODULE

360-380W

**POWER OUTPUT RANGE** 

20.7%

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.

#### 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









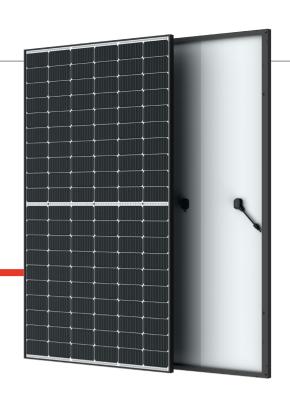








POWER RANGE





### **High power**

- Up to 380W front power and 20.7% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings
- Lower resistance of half-cut and good reflection effect of MBB ensure high power



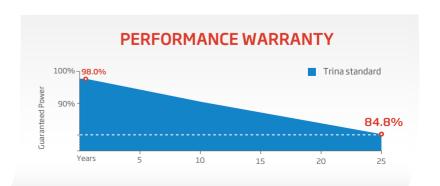
### **High reliability**

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load



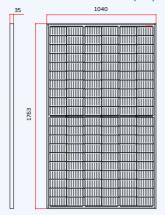
## High energy generation

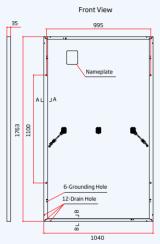
- Excellent IAM and low light performance validated by 3rd party with cell process and module material optimization
- Lower temp coefficient (-0.36%) and NMOT bring more energy leading to lower LCOE
- Better anti-shading performance and lower operating temperature

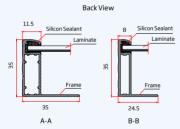




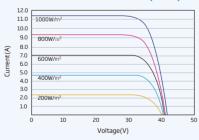
#### DIMENSIONS OF PV MODULE(mm)



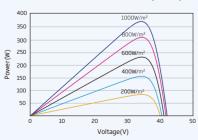




#### I-V CURVES OF PV MODULE(370W)



#### P-V CURVES OF PV MODULE(370W)



#### ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	360	365	370	375	380
Power Tolerance-P <sub>MAX</sub> (W)	0~+5				
Maximum Power Voltage-VMPP (V)	33.6	33.9	34.2	34.4	34.7
Maximum Power Current-I <sub>MPP</sub> (A)	10.70	10.76	10.82	10.89	10.96
Open Circuit Voltage-Voc (V)	40.7	41.0	41.3	41.6	41.9
Short Circuit Current-Isc (A)	11.24	11.30	11.37	11.45	11.52
Module Efficiency η m (%)	19.6	19.9	20.2	20.5	20.7

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

#### **ELECTRICAL DATA (NMOT)**

Maximum Power-P <sub>MAX</sub> (Wp)	272	276	280	283	288
Maximum Power Voltage-V <sub>MPP</sub> (V)	31.7	32.0	32.2	32.4	32.7
Maximum Power Current-Impp (A)	8.57	8.62	8.67	8.73	8.80
Open Circuit Voltage-Voc (V)	38.4	38.7	39.0	39.3	39.5
Short Circuit Current-Isc (A)	9.05	9.10	9.15	9.22	9.27

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

#### **MECHANICAL DATA**

Solar Cells	Monocrystalline
Cell Orientation	120 cells (6× 20)
Module Dimensions	1763×1040 × 35 mm (69.41× 40.94 × 1.38 inches)
Weight	20.0 kg (44.1 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
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²),
	Portrait: N 280mm/P 280mm(11.02/11.02inches)
	Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	MC4 EV02/TS4*

 $<sup>{}^{\</sup>star}\mathsf{Please}\,\mathsf{refer}\,\mathsf{to}\,\mathsf{regional}\,\mathsf{data}\mathsf{sheet}\,\mathsf{for}\,\mathsf{specified}\,\mathsf{connector}.$ 

#### TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.36%/°C
Temperature Coefficient of Voc	- 0.26%/°C
Temperature Coefficient of Isc	0.04%/℃

#### MAXIMUM RATINGS

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

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

#### 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: 30 pieces

Modules per 40'container: 780 pieces

