

THE
Honey^M
 FRAMED 120 LAYOUT MODULE



120 LAYOUT
 MONOCRYSTALLINE MODULE

360-380W
 POWER OUTPUT RANGE

20.7%
 MAXIMUM EFFICIENCY

0~+5W
 BINNING 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



PRODUCTS	POWER RANGE
TSM-DD08M.08(II)	360-380W



High power Mono Perc

- 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

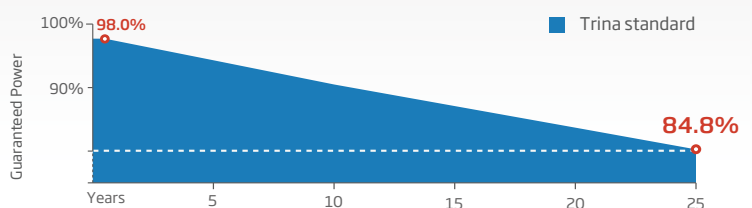
- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load



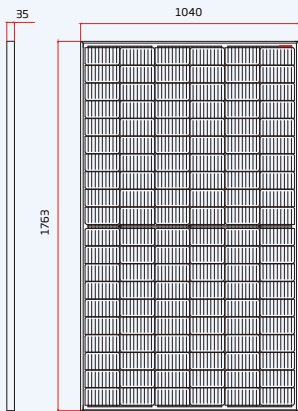
High energy generation

- 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

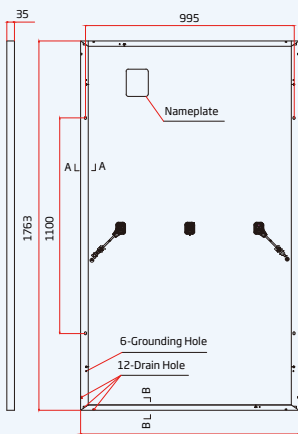
PERFORMANCE WARRANTY



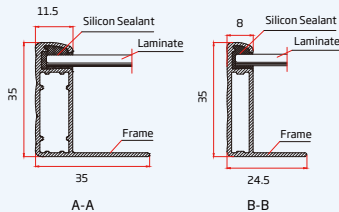
DIMENSIONS OF PV MODULE(mm)



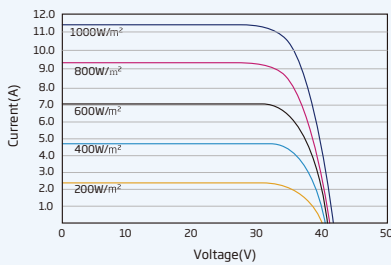
Front View



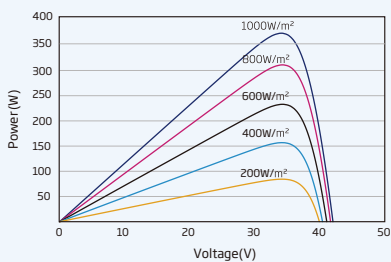
Back View



I-V CURVES OF PV MODULE(370W)



P-V CURVES OF PV MODULE(370W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (Wp)*	360	365	370	375	380
Binning Tolerance- P_{MAX} (W)	0 ~ +5				
Maximum Power Voltage- V_{MPP} (V)	33.6	33.9	34.2	34.4	34.7
Maximum Power Current- I_{MPP} (A)	10.70	10.76	10.82	10.89	10.96
Open Circuit Voltage- V_{OC} (V)	40.7	41.0	41.3	41.6	41.9
Short Circuit Current- I_{SC} (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_{MAX} (Wp)	272	276	280	283	288
Maximum Power Voltage- V_{MPP} (V)	31.7	32.0	32.2	32.4	32.7
Maximum Power Current- I_{MPP} (A)	8.57	8.62	8.67	8.73	8.80
Open Circuit Voltage- V_{OC} (V)	38.4	38.7	39.0	39.3	39.5
Short Circuit Current- I_{SC} (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	3.2mm (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 4.0mm ² (0.006 inches ²), Portrait: N 280mm/P 280mm(11.02/11.02inches) Landscape: N 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	PV-KBT4(female),PV-KST4(male) /TS4

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	41 C (± 3 C)
Temperature Coefficient of P_{MAX}	- 0.36%/ C
Temperature Coefficient of V_{OC}	- 0.26%/ C
Temperature Coefficient of I_{SC}	0.04%/ C

(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)

MAXIMUM RATINGS

Operational Temperature	-40~+85 C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating*	20A / 25A

*Default 20A / 25A upon special request

PACKAGING CONFIGURATION

- Modules per box: 30 pieces
- Modules per 40' container: 780 pieces

THE Honey^M

FRAMED 60 LAYOUT MODULE



60 LAYOUT MONOCRYSTALLINE MODULE

320-340W POWER OUTPUT RANGE

19.9% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Products | Color of BS | Power Range
DD06M.08(II) | White | 320-340W



High power output

- Combined with MBB technology, maximum 340W



Outstanding visual appearance

- Designed with aesthetics in mind
- Thinner wires that appear all black at a distance



Half-cell design brings higher efficiency

- Half-Cell layout (120 monocrystalline) PERC Technology
- Low thermal coefficients for greater energy production at high operating temperature
- Low cell connection power loss due to half-cell layout (120 monocrystalline)



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Internal test requirement of Trina more stringent than certification authority
- 100% EL double inspection



Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load
- * 2400/2400 is the measured load, and the safety factor is 1.5 times

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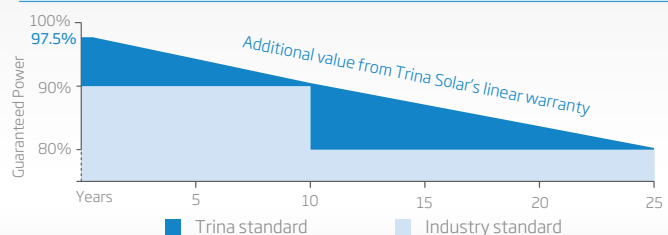
Comprehensive Products And System Certificates

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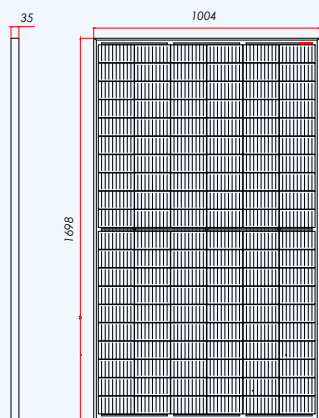


LINEAR PERFORMANCE WARRANTY

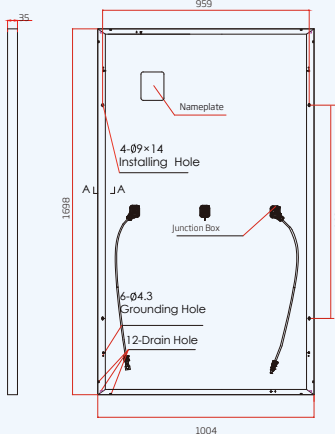
10 Year Product Warranty · 25 Year Linear Power Warranty



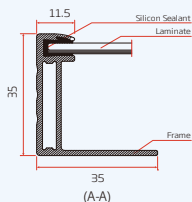
DIMENSIONS OF PV MODULE(mm)



Front View

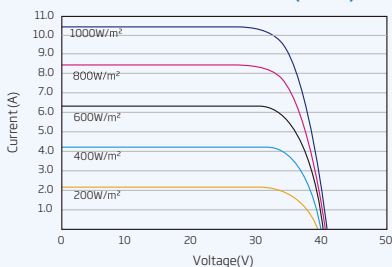


Back View

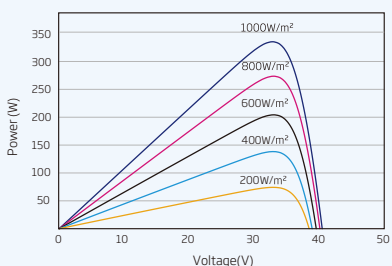


(A-A)

I-V CURVES OF PV MODULE(335W)



P-V CURVES OF PV MODULE(335W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	320	325	330	335	340
Power Output Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage-VMPP (V)	33.4	33.6	33.8	34.0	34.2
Maximum Power Current-IMPP (A)	9.58	9.67	9.76	9.85	9.94
Open Circuit Voltage-VOC (V)	40.3	40.4	40.6	40.7	41.1
Short Circuit Current-ISC (A)	10.20	10.30	10.39	10.48	10.55
Module Efficiency η_m (%)	18.8	19.1	19.4	19.7	19.9

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

*Measuring tolerance: $\pm 3\%$.

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)	241	245	249	253	256
Maximum Power Voltage-VMPP (V)	31.1	31.3	31.5	31.7	32.0
Maximum Power Current-IMPP (A)	7.75	7.84	7.90	7.96	8.02
Open Circuit Voltage-VOC (V)	38.0	38.1	38.2	38.3	38.7
Short Circuit Current-ISC (A)	8.23	8.31	8.38	8.45	8.50

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	1698 × 1004 × 35 mm (66.85 × 39.53 × 1.38 inches)
Weight	18.7kg (41.2lb)
Glass	3.2mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Encapsulant Material	EVA
Backsheet	White (.08) / Black (.05)
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
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 1200 mm /P 1200 mm (47.24/47.24 inches)
Connector	MC4 / TS4

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	41°C ($\pm 3^\circ\text{C}$)
Temperature Coefficient of PMAX	- 0.37%/°C
Temperature Coefficient of VOC	- 0.29%/°C
Temperature Coefficient of ISC	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	1000V DC (IEC) 1000V 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: 780 pieces

