

# 315-335W

## BACKSHEET MONOCRYSTALLINE MODULE

# Trina solar



Mono    Multi    Solutions

THE

# HoneyBlack<sup>TM</sup>

BACKSHEET MONOCRYSTALLINE MODULE



**120 LAYOUT**  
MONOCRYSTALLINE MODULE

**315-335W**  
POWER OUTPUT RANGE

**19.9%**  
MAXIMUM EFFICIENCY

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

PRODUCTS

TSM-DD06M.05(II)

POWER RANGE

315-335W



### Outstanding visual appearance

- Designed with aesthetics in mind
- Excellent cell color control by dedicated cell blackening treatment and machine selection.
- Thinner wires that appear all black at a distance



### High power

- Up to 335W front power and 19.9% 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
- Better anti-shading performance and lower operating temperature

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

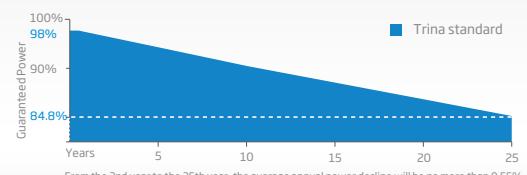
IEC61215/IEC61730/IEC61701/IEC62716/UL61730  
ISO 9001: Quality Management System  
ISO 14001: Environmental Management System  
ISO14064: Greenhouse Gases Emissions Verification  
ISO45001: Occupation Health and Safety Management System



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### PERFORMANCE WARRANTY

15 Year Product Warranty · 25 Year Power Warranty



# 315-335W

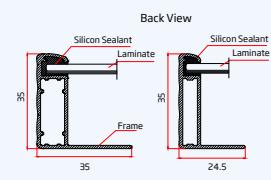
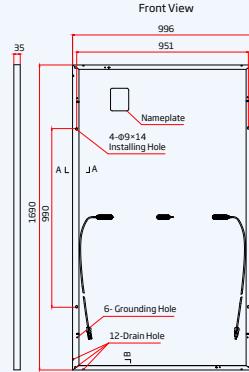
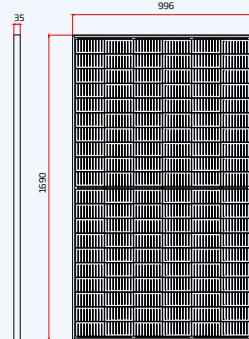
## BACKSHEET MONOCRYSTALLINE MODULE

**Trina Solar**  
GREEN ENERGY  
TOGETHER

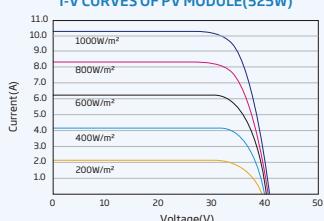
### HoneyBlack™

### BACKSHEET MONOCRYSTALLINE MODULE

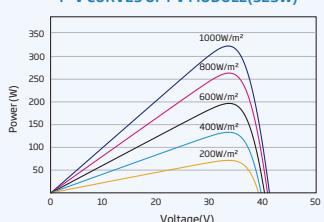
#### DIMENSIONS OF PV MODULE(mm)



#### I-V CURVES OF PV MODULE(325W)



#### P-V CURVES OF PV MODULE(325W)



#### ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	315	320	325	330	335
Power Tolerance-P <sub>MAX</sub> (W)			0 ~ +5		
Maximum Power Voltage-V <sub>MPP</sub> (V)	33.2	33.4	33.6	33.8	34.0
Maximum Power Current-I <sub>MPP</sub> (A)	9.49	9.58	9.67	9.76	9.85
Open Circuit Voltage-V <sub>OC</sub> (V)	40.1	40.3	40.4	40.6	40.7
Short Circuit Current-I <sub>SC</sub> (A)	10.10	10.20	10.30	10.39	10.48
Module Efficiency $\eta$ m (%)	18.7	19.0	19.3	19.6	19.9

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)	238	241	245	249	252
Maximum Power Voltage-V <sub>MPP</sub> (V)	31.0	31.1	31.3	31.5	31.6
Maximum Power Current-I <sub>MPP</sub> (A)	7.67	7.75	7.83	7.91	7.98
Open Circuit Voltage-V <sub>OC</sub> (V)	37.8	37.9	38.0	38.2	38.3
Short Circuit Current-I <sub>SC</sub> (A)	8.14	8.22	8.30	8.37	8.44

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

#### MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	120 cells (6 × 20)
Module Dimensions	1690 × 996 × 35 mm (66.54 × 39.21 × 1.38 inches)
Weight	18.0 kg (39.7 lb)
Glass	3.2mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Encapsulant Material	EVA/POE
Backsheet	Black-White
Frame	35 mm (1.38 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 1200 mm/P 1200 mm (47.24/47.24 inches)
Connector	MC4 / 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

#### MAXIMUM RATINGS

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

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

#### WARRANTY

15 year Product Workmanship Warranty

25 year Power Warranty

(Please refer to product warranty for details)

#### PACKAGING CONFIGURATION

Modules per box: 30 pieces

Modules per 40' container: 780 pieces

# Trina Solar

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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