

PRODUCT: TSM-DE09.05 PRODUCT RANGE: 380-395W

20.5%

MAXIMUM EFFICIENCY



0~+5W

BINNING TOLERANCE



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

Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space.
 Up to 395W, 20.5% module efficiency with high density interconnect technology
- Mono Perc Cell and Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection
- Reduce installation cost with higher power bin and efficieny
- Boost performance in warm weather lower temperature coefficient (-0.34%) and operating temperature

Universal solution for residential and C&I rooftops

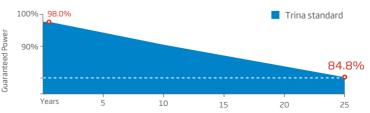
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment

High Reliability

• 15 year product warranty

- 25 year performance warranty with lowest degradation;
- Minimized micro-cracks with innovative non-destructive cutting technology
 Fire Class rating C
- Fire Class rating C
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load

Trina Solar's Backsheet Performance Warranty



Comprehensive Products and System Certificates



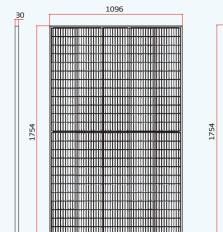
IEC61215/IEC61730 ISO 9001: Quality Management System ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System

Trinasolar

Small i Sma

VERTEX S BACKSHEET MONOCRYSTALLINE MODULE

DIMENSIONS OF PV MODULE(mm)



Front View

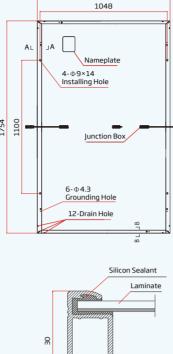
33

A-A

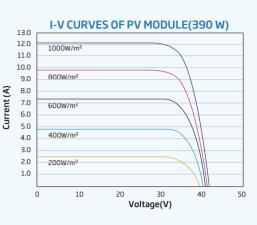
Silicon Sealant

Laminate

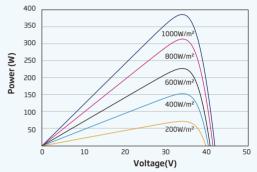
Frame



1096



P-V CURVES OF PV MODULE(390W)



ELECTRICAL DATA (STC)

Maximum Power-PMAX (Wp)

Maximum Power Voltage-VMPP (V)

Maximum Power Current-IMPP (A)

Open Circuit Voltage-Voc (V)

Short Circuit Current-Isc (A)

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Peak Power Watts-PMAX (Wp)*	380	385	390	395
Binning Tolerance-PMAX (W)		0 ~ ·	+5	
Maximum Power Voltage-VMPP (V)	33.4	33.6	33.8	34.0
Maximum Power Current-IMPP (A)	11.38	11.46	11.54	11.62
Open Circuit Voltage-Voc (V)	40.4	40.6	40.8	41.0
Short Circuit Current-Isc (A)	12.00	12.07	12.14	12.21
Module Efficiency n m (%)	19.8	20.0	20.3	20.5
STC: Irrdiance 1000W/m2, Cell Temperature 25°C, Ai	r Mass AM1.5. *Mea	suring tolerance: ±3%.		
ELECTRICAL DATA (NOCT)				

286

31.4

9.12

38.0

9.67

290

31.6

9.18

38.2

9.73

294

31.8

9.24

38.4

9.78

298

31.9

9.32

38.6

9.84

Solar Cells

MECHANICAL DATA

Fram

18

B-B

120 cells 1754×1096×30 mm (69.06×43.15×1.18 inches)
1754×1096×30 mm (69.06×43.15×1.18 inches)
21.0 kg (46.3 lb)
3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
EVA/POE
Black-White
30mm(1.18 inches) Anodized Aluminium Alloy
IP 68 rated
Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: 280/280 mm(11.02/11.02 inches) Landscape: 1100/1100 mm(43.31/43.31 inches)
MC4 EV02 / TS4

Monocrystalline

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of PMAX	- 0.34%/°C
Temperature Coefficient of Voc	- 0.25%/°C
Temperature Coefficient of Isc	0.04%/°C

MAXIMUMRATINGS

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

PACKAGING CONFIGUREATION

Modules per 40' container: 936 pieces

Modules per box: 36 pieces

WARRANTY

15 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation
(Please refer to product warranty for details)

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



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2021 Trina Solar Limited, All rights reserved, Specifications included in this datasheet are subject to change without notice. Version number: TSM_EN_2021_Aus_A www.trinasolar.com Country of Origin: China