

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

395W+ MAXIMUM POWER OUTPUT

O/+5 W POSITIVE POWER TOLERANCE

20.5%



Outstanding Visual Appearance

- Designed with aesthetics in mind
- Ultra-thin, virtually invisible busbars
- Excellent cell color control by machine selection

Small in size, big on power

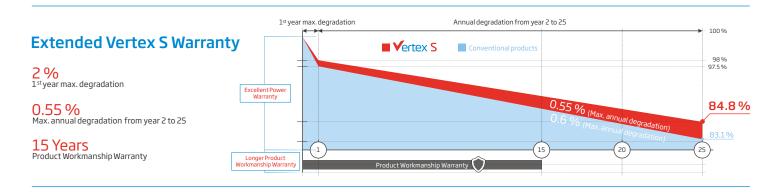
- Generates up to 395 W, 20.5 % module efficiency with high density interconnect technology
 - Multi-busbar technology for better light trapping, lower series resistance, improved current collection and enhanced reliability
 - Excellent low light performance (IAM) with cell process and module material optimization

🖧 Universal solution for residential and C&I rooftops

- Designed for compatibility with existing mainstream inverters, optimizers and mounting systems
- Perfect size and low weight for easy handling. Optimized transportation cost
- Reduces installation cost with higher power bin and efficiency
- Flexible installation solutions for system deployment

High Reliability

- 6,000 Pa snow load (test load)
 - 4,000 Pa wind load (test load)



Comprehensive Product and System Certificates

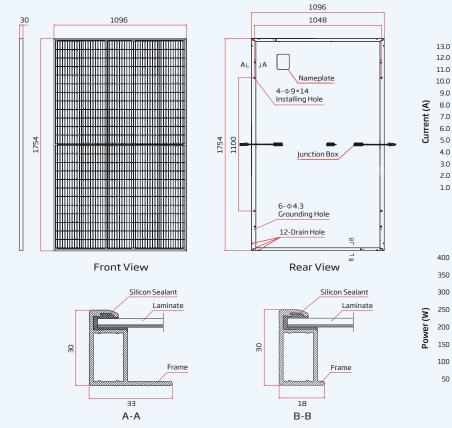


IEC61215/IEC61730/IEC61701/IEC62716 ISO 9001: Quality Management System ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System





DIMENSIONS OF PV MODULE (mm)



ELECTRICAL DATA (STC)	TSM-380 DE09.05	TSM-385 DE09.05	TSM-390 DE09.05	TSM-395 DE09.05
Peak Power Watts-Pmax (Wp)*	380	385	390	395
Power Tolerance-PMAX (W)	0/+5	0/+5	0/+5	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 η m (%)	19.8	20.0	20.3	20.5

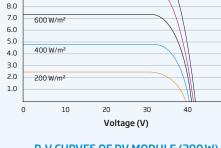
STC: Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM1.5 *Measuring tolerance: ±3%

ELECTRICAL DATA (NOCT)	TSM-380 DE09.05	TSM-385 DE09.05	TSM-390 DE09.05	TSM-395 DE09.05
Maximum Power-PMAX (Wp)	286	290	294	298
Maximum Power Voltage-VMPP (V)	31.4	31.6	31.8	31.9
Maximum Power Current-Impp (A)	9.12	9.18	9.24	9.32
Open Circuit Voltage-Voc (V)	38.0	38.2	38.4	38.6
Short Circuit Current-Isc (A)	9.67	9.73	9.78	9.84

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

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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_A



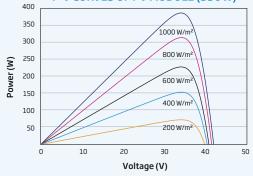
I-V CURVES OF PV MODULE (390 W)

1000 W/m²

800 W/m²

P-V CURVES OF PV MODULE (390 W)

50



MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm
Weight	21.0 kg
Glass	3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	Black-White
Frame	30 mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm² Landscape: 1100/1100 mm Portrait: 280/280 mm*
Connector	TS4/MC4 EVO2*

TEMPERATURE RATINGS

 NOCT(Nominal Operating Cell Temperature
 43 °C (±2 K)

 Temperature Coefficient of PMAX
 -0.34 %/K

 Temperature Coefficient of SOC
 -0.25 %/K

 Temperature Coefficient of ISC
 0.04 %/K

WARRANTY

15 year Product Workmanship Warranty
25 year Power Warranty
2% first year Degradation
0.55% Annual Power Degradation

(Please refer to the applicable limited warranty for details)

MAXIMUM RATINGS

-40 to +85 °C
1500 V DC (IEC)
20 A

PACKAGING CONFIGURATION

Modules per box	36 pieces	
Modules per 40' container	936 pieces	

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