

# TSM-DC80.08

## THE **Quadmax** MODULE

**72 CELL**  
MONOCRYSTALLINE MODULE

**205-215W**  
POWER OUTPUT RANGE

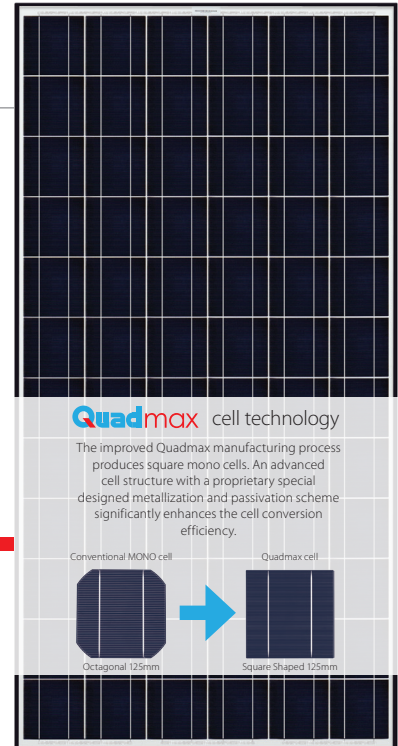
**16.8%**  
MAXIMUM EFFICIENCY

**0~+3%**  
POWER OUTPUT GUARANTEE

As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners as the backbone of our shared success in driving Smart Energy Together.

Trina Solar Limited  
www.trinasolar.com

**Trinasolar**  
Smart Energy Together



### Excellent power density with highest efficiency

- Up to 164W/m<sup>2</sup> power density



### Great aesthetics for residential applications

- Deep black, full square mono cells with black frame



### Easy handling and optimum utilization of roof space

- Smaller module format
- Low weight - just 12kg/m<sup>2</sup>

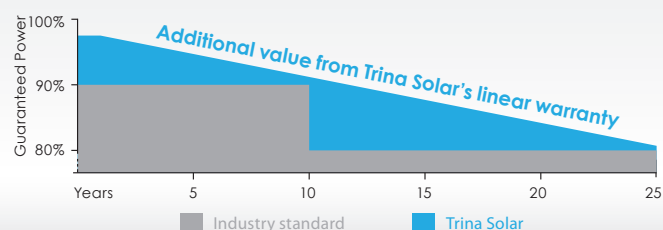


### Excellent low light performance on cloudy days, mornings and evenings

- Mono cell technology
- Anti-reflective coating

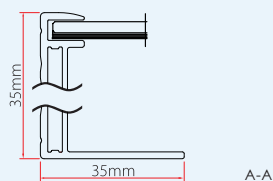
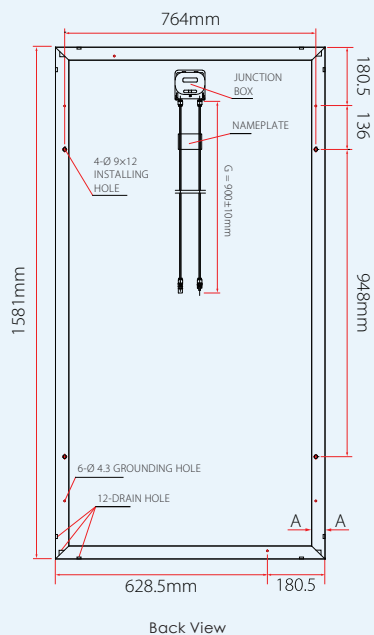
## LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

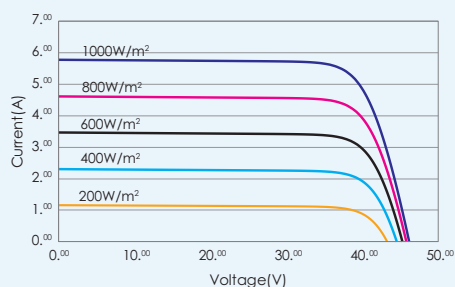


# TSM-DC80.08 THE Quadmax MODULE

## DIMENSIONS OF PV MODULE TSM-DC80.08



## I-V CURVES OF PV MODULE TSM-205 DC80.08



## CERTIFICATION



ELECTRICAL DATA @ STC	TSM-205 DC80.08	TSM-210 DC80.08	TSM-215 DC80.08
Peak Power Watts- $P_{MAX}$ (Wp)	205	210	215
Power Output Tolerance- $P_{MAX}$ (%)	0/+3	0/+3	0/+3
Maximum Power Voltage- $V_{MPP}$ (V)	37.7	38.3	38.4
Maximum Power Current- $I_{MPP}$ (A)	5.43	5.48	5.60
Open Circuit Voltage- $V_{OC}$ (V)	46.2	46.6	46.7
Short Circuit Current- $I_{SC}$ (A)	5.83	5.88	5.96
Module Efficiency $\eta_m$ (%)	16.0	16.4	16.8

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m<sup>2</sup> according to EN 60904-1.

ELECTRICAL DATA @ NOCT	TSM-205 DC80.08	TSM-210 DC80.08	TSM-215 DC80.08
Maximum Power- $P_{MAX}$ (Wp)	151	155	158
Maximum Power Voltage- $V_{MPP}$ (V)	34.6	34.9	35.1
Maximum Power Current- $I_{MPP}$ (A)	4.35	4.42	4.50
Open Circuit Voltage (V)- $V_{OC}$ (V)	42.7	43.0	43.1
Short Circuit Current (A)- $I_{SC}$ (A)	4.66	4.74	4.81

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

## MECHANICAL DATA

Solar cells	Monocrystalline 125 × 125 mm
Cell orientation	72 cells (6 × 12)
Module dimensions	1581 × 809 × 35 mm
Weight	14.9 kg
Glass	High Transparency Solar Glass 3.2 mm
Backsheet	White
Frame	Black Anodized Aluminium Alloy
J-Box	IP 65 or IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm <sup>2</sup> , 900 mm
Connector	Original MC4

## TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C (±2°C)
Temperature Coefficient of $P_{MAX}$	-0.39%/°C
Temperature Coefficient of $V_{OC}$	-0.30%/°C
Temperature Coefficient of $I_{SC}$	0.040%/°C

## MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	10A

## WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

(Please refer to product warranty for details)

## PACKAGING CONFIGURATION

Modules per box: 29 pieces

Modules per 40' container: 812 pieces