

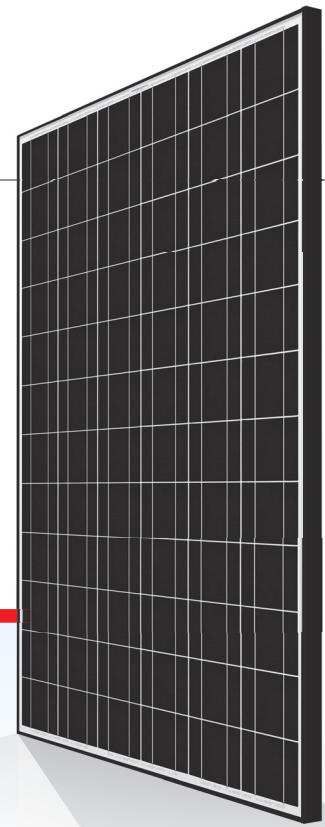
Mono

Multi

Solutions

THE **Quadmax** MODULE

TSM-DC80.08



72 CELL
MONOCRYSTALLINE MODULE

210–215W
POWER OUTPUT RANGE

16.8%
MAXIMUM EFFICIENCY

0 to +3%
POSITIVE POWER TOLERANCE

TRINA SOLAR: A STRONG AND RELIABLE PARTNER

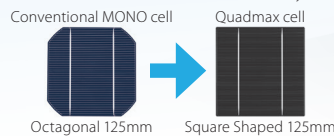
As a leading global manufacturer of next generation photovoltaic products, Trina Solar is committed to building mutually beneficial alliances with installers, developers, distributors and technological partners as the backbone of our shared goal to drive Smart Energy Together. Thanks to an extensive sales and service network with local expert teams throughout Europe, Trina Solar is perfectly positioned to support your needs. With Trina Solar as your strong, bankable partner you can rest assured knowing that you've made the right choice.

www.trinasolar.com



Quadmax cell technology

New and improved manufacturing process has been developed to produce square mono cells. An advanced cell structure with a proprietary special designed metallization and passivation scheme has been used to significantly enhance the cell conversion efficiency.



Excellent power density with highest efficiency

- Up to 168W/m² power density
- High quality solar glass with anti-reflective coating



Great aesthetics for residential applications

- Deep black, full square cells
- Black frame



Easy handling and optimum utilization of roof space

- Smaller module format
- Low weight – just 12kg/m²



Excellent low light performance on cloudy days, mornings and evenings

- High quality monocrystalline cells

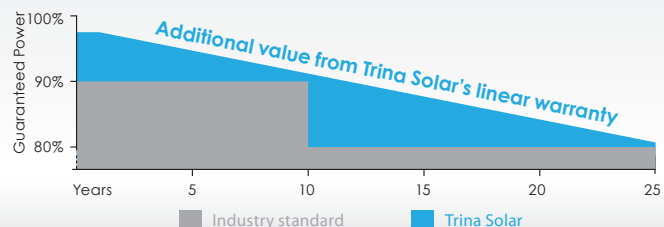


Highly reliable due to stringent quality control

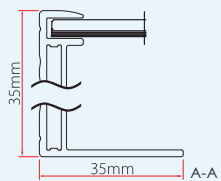
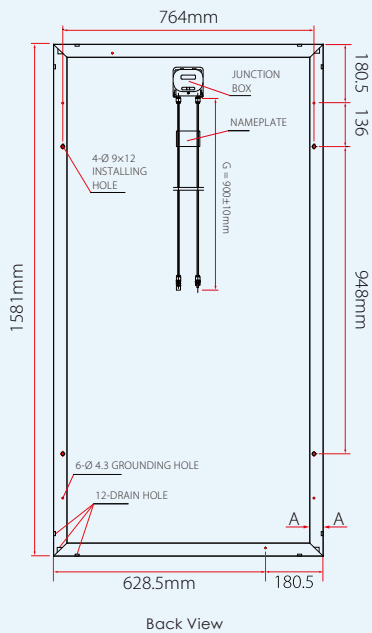
- PID resistant

LINEAR PERFORMANCE WARRANTY

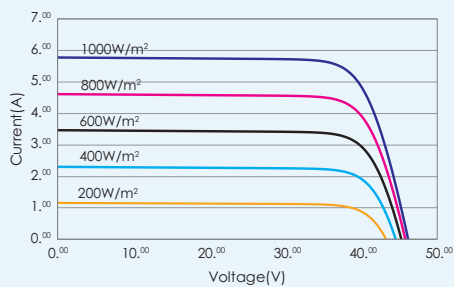
10 Year Product Warranty • 25 Year Linear Power Warranty



DIMENSIONS OF PV MODULE TSM-DC80.08



I-V CURVES OF PV MODULE TSM-210 DC80.08



CERTIFICATION

IEC61215 /EN61215
 IEC61730/EN 61730
 IEC 627162 PtG 1917/05.11
 IEC 61701
 DIN EN 60068-2-68 IC2
 MCS BRE PV0183



ELECTRICAL DATA @ STC	TSM-210 DC80.08	TSM-215 DC80.08
Peak Power Watts- P_{MAX} (Wp)	210	215
Power Output Tolerance- P_{MAX} (%)	0/+3	0/+3
Maximum Power Voltage- V_{MPP} (V)	37.6	38.4
Maximum Power Current- I_{MPP} (A)	5.59	5.60
Open Circuit Voltage- V_{OC} (V)	46.7	46.7
Short Circuit Current- I_{SC} (A)	5.90	5.96
Module Efficiency η_m (%)	16.4	16.8

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Average efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

ELECTRICAL DATA @ NOCT	TSM-210 DC80.08	TSM-215 DC80.08
Maximum Power- P_{MAX} (Wp)	156	160
Maximum Power Voltage- U_{MPP} (V)	34.8	35.2
Maximum Power Current- I_{MPP} (A)	4.49	4.55
Open Circuit Voltage- U_{OC} (V)	43.3	43.3
Short Circuit Current- I_{SC} (A)	4.77	4.81

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

MECHANICAL DATA

Solar Cells	Monocrystalline 125 x 125 mm
Cell Orientation	72 cells (6 x 12)
Module Dimensions	1581 x 809 x 35 mm
Weight	14.9 kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass - 3.2mm
Backsheet	White
Frame	Black Anodized Aluminium Alloy
J-Box	IP 67 rated
Cables	Photovoltaic Technology cable 4.0 mm ² , 900 mm
Connector	Original MC4

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2K)
Temperature Coefficient of P_{MAX}	- 0.40%/K
Temperature Coefficient of V_{OC}	- 0.31%/K
Temperature Coefficient of I_{SC}	0.05%/K

MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1000V DC (IEC)
Max Series Fuse Rating	12A
Mechanical Load	5400pa
Wind Load	2400pa

WARRANTY

10 year Product Workmanship Warranty
 25 year Linear Performance Warranty
 (Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box:	30 pieces (Standard Packaging) 38 pieces (Dual Packaging)
Modules per 40' container:	840 pieces (Standard Packaging) 532 pieces (Dual Packaging)



TSM_EN_SEP_2014