



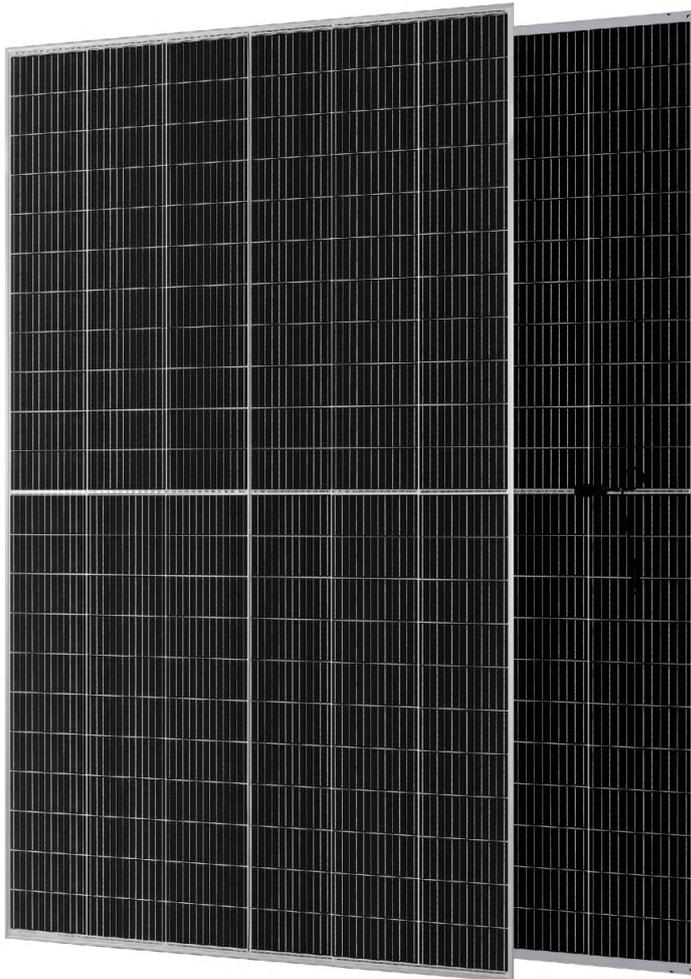
TOPCON Technology

1/2 Cut

Silver Frame Bifacial 700-725W

MS(700-725)MTDG-66HN
TOPCON 210mm 132 Cells

Advanced Solar Technology



Industry-leading Process Technology

Leading TOPCON cell/module design, taking into account both product performance and reliability.



Super Strong Power Generation Capacity

The most efficient mass-produced battery technology, with component efficiency reaching 23.3%.



G12 Battery Pack

Large-size silicon wafer modules effectively reduce LCOE costs and achieve higher returns.



High Reliability

Adapt to harsh installation environments, with 5400 Pa on the front and 2400 Pa on the back.



Strong Adaptability to Complex Environments

Excellent weak light response and lower temperature coefficient bring high power generation capacity around the clock.



Peace of Mind Warranty

Very low efficiency degradation (LID/PID) and longer service life.

23.30%

Maximum Efficiency

0 ~ +5W

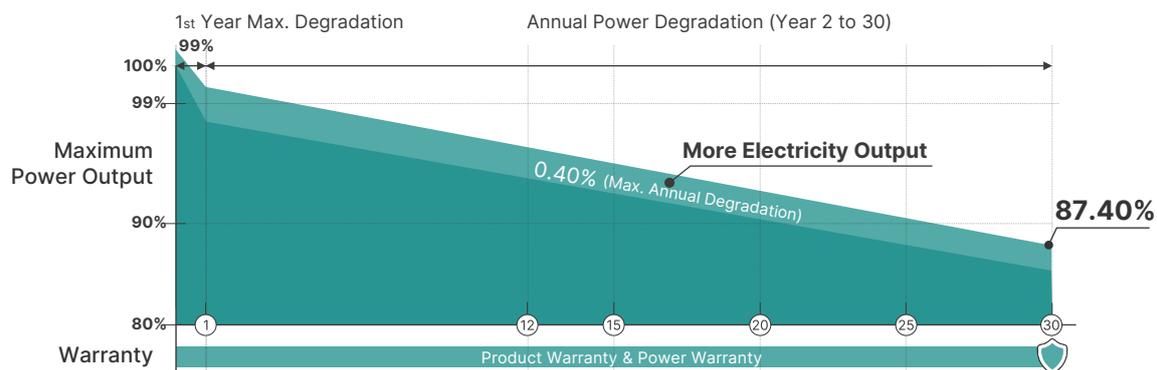
Positive Power Tolerance

30 Years

Product Warranty

30 Years

Power Warranty



Electrical Data(STC / NOCT)

Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts- P_{MAX} (Wp)*	700	533	705	538	710	542	715	546	720	551	725	555
Power Tolerance- P_{MAX} (W)	0 ~ +5											
Maximum Power Voltage- V_{MPP} (V)	40.71	38.21	40.85	38.35	41.02	38.52	41.17	38.67	41.33	38.83	41.48	38.95
Maximum Power Current- I_{MPP} (A)	17.20	13.95	17.27	14.02	17.35	14.07	17.38	14.13	17.44	14.19	17.48	14.25
Open Circuit Voltage- V_{OC} (V)	48.51	46.41	48.76	46.66	49.01	46.91	49.26	47.16	49.51	47.41	49.58	47.66
Short Circuit Current- I_{SC} (A)	18.22	14.66	18.26	14.70	18.31	14.75	18.36	14.80	18.40	14.84	18.54	14.89
Module Efficiency η_m (%)	22.54	22.54	22.70	22.70	22.86	22.86	23.02	23.02	23.18	23.18	23.30	23.30

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

* NOCT: Air Mass AM1.5, Front Irradiance at 1000W/m², back Irradiance at 135W/m², Cell Temperature 25°C / Measuring tolerance: ±3%.

Mechanical Data

Solar Cells	Monocrystalline, TOPCON
Cell Orientation	132cells (6 x 22)
Module Dimensions	2384mm x 1303mm x 30mm
Weight	40±5kg
Front Glass	2.0mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	POE
Back Glass	2.0mm, High Transmission, Heat Strengthened Glass
Frame	30mm Silver, Galvanized Steel or Powder-coated Steel Frame
J-Box	IP 68 Rated(3 Bypass Diodes)
Cables	Photovoltaic Technology Cable 4.0mm ² Portrait: N 300mm / P 300mm Length Can be Customized
Connector	MC4 Compatible

* Please refer to regional datasheet for specific connector.

Temperature Ratings

NOCT(Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.29% / °C
Temperature Coefficient of V_{OC}	-0.25% / °C
Temperature Coefficient of I_{SC}	0.045% / °C

* Do not connect fuse in combiner box with two or more strings in parallel connection.

Application Environment

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	(IEC)35A
Mechanical Performance	P 5400Pa / N 2400Pa

Warranty

30 Years Product Warranty

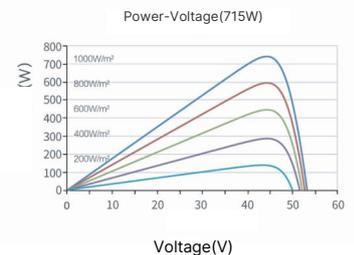
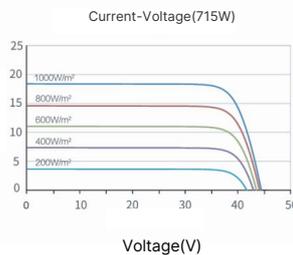
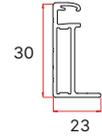
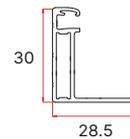
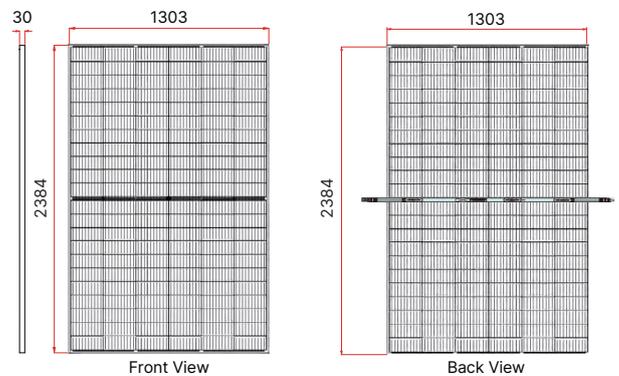
30 Years Power Warranty

1% First Year Degradation

0.40% Annual Power Degradation

* Please refer to product warranty for details.

Dimensions of PV Module (mm)



Packaging Configuration

Modules Per Pallet: 37 Pieces

Modules Per 40' Container: 666 Pieces