



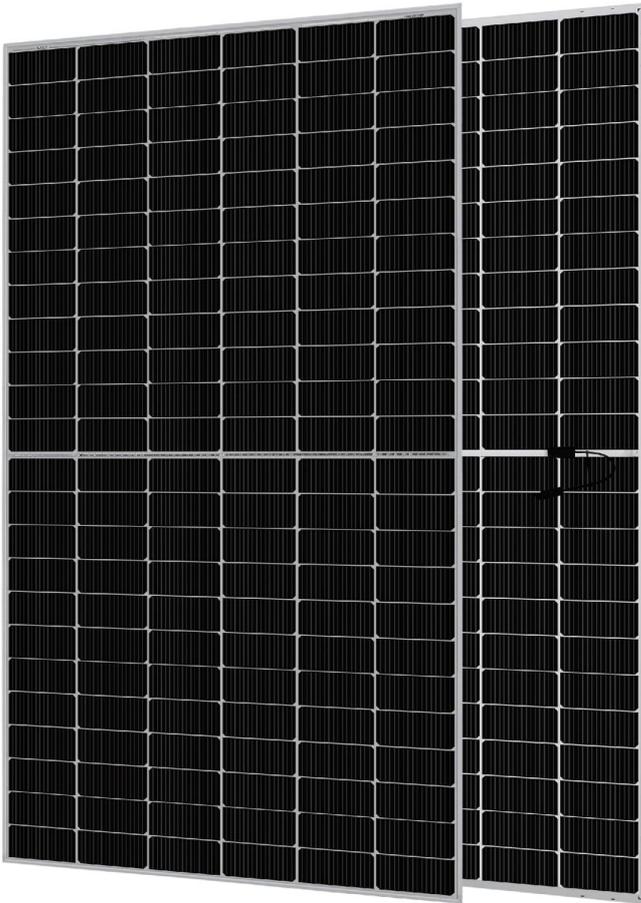
N-TOPCON

1/2 Cut

Double Glass 580-600W

MS(580-600)MTDG-72H
Mono N-Type 182mm 144 Cells

**New Technology Tailored
for European Distribution**



30-Year Lifespan

Wide range of applications for severe weather with a service life of over 30 years.



Lower Degradation

N-type solar technology gains slower power Degradation and excellent low-light performance.



Adaptability

1/2-cut low-current cell technology adaptable to main-stream European inverters.



Safety

Higher fire safety, more suitable for high density residential areas.



High Power

Bifacial power generation with 5%-30% increase in output for different conditions.

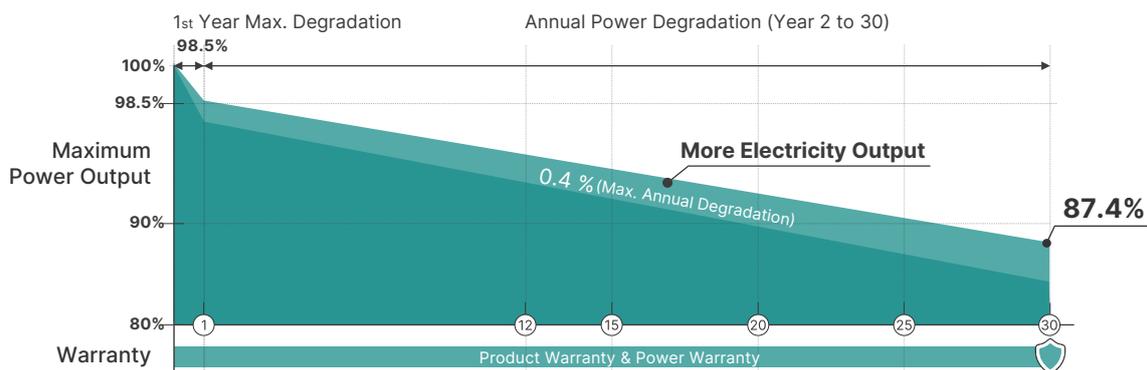


23.23%
Maximum Efficiency

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
Peak Power Watts- P_{MAX} (Wp)*	580	435	585	438	590	441	595	444	600	447
Power Tolerance- P_{MAX} (W)	0 ~ +5									
Maximum Power Voltage- V_{MPP} (V)	42.62	39.93	42.77	40.02	42.92	40.11	43.07	40.20	43.22	40.29
Maximum Power Current- I_{MPP} (A)	13.61	10.91	13.68	10.96	13.75	11.01	13.82	11.06	13.89	11.11
Open Circuit Voltage- V_{OC} (V)	51.49	48.91	51.69	49.10	51.89	49.29	52.09	49.48	52.29	49.67
Short Circuit Current- I_{SC} (A)	14.35	11.58	14.41	11.63	14.47	11.68	14.53	11.73	14.59	11.78
Module Efficiency η_m (%)	22.45	22.45	22.64	22.64	22.83	22.83	23.03	23.03	23.23	23.23

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

* NOCT: Irradiance at 800W/m², Cell Temperature 20°C, Wind Speed 1m/s / Measuring tolerance: ±3%.

Mechanical Data

Solar Cells	Monocrystalline
Cell Orientation	N-TOPCon 144cells (6 x 24)
Module Dimensions	2279mm x 1134mm x 30mm
Weight	32.00kg
Front Glass	2.0 mm AR coating semi-tempered glass, low iron
Encapsulant material	POE
Back Glass	2.0 mm AR coating semi-tempered glass, low iron
Frame	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}	-0.320% / °C
Temperature Coefficient of V_{OC}	-0.270% / °C
Temperature Coefficient of I_{SC}	0.048% / °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)30A
Mechanical Performance	P 5400Pa / N 2400Pa

Warranty

30 Years Product Warranty

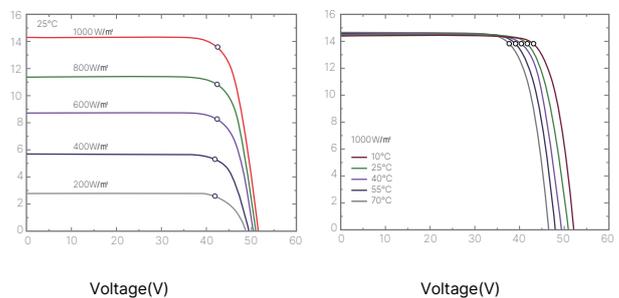
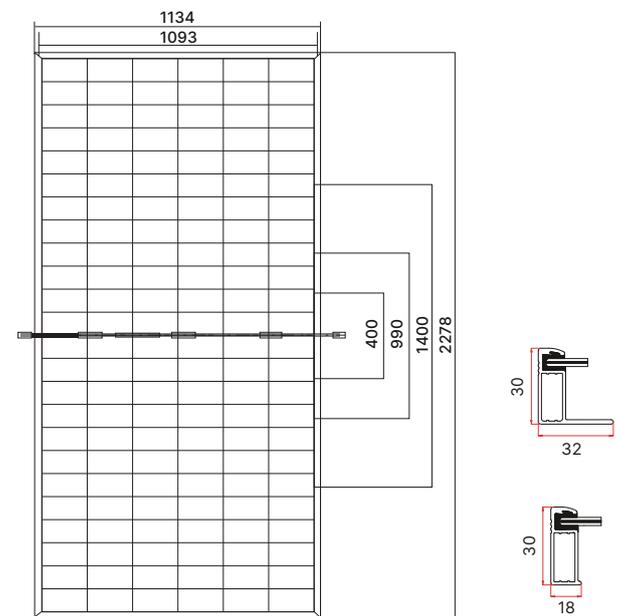
30 Years Power Warranty

1.5% First Year Degradation

0.4% Annual Power Degradation

* Please refer to product warranty for details.

Dimensions of PV Module (mm)



Packaging Configuration

Modules Per Pallet: 36 Pieces

Modules Per 40' Container: 720 Pieces