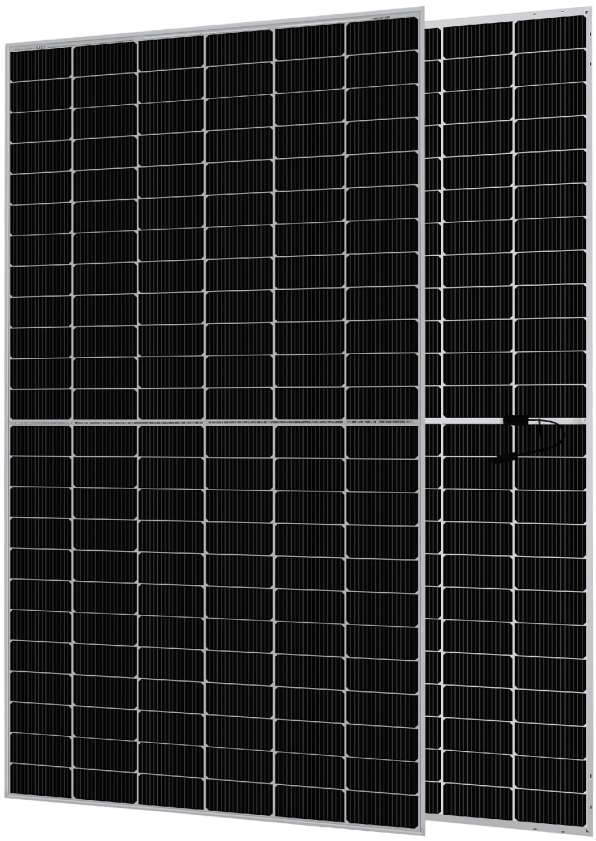
Maysun Solar

N-TOPCON

1/2 Cut
Silver Frame Bifacial 570-595W

MS(570-595)MB-72H
Mono N-Type 182mm 144 Cells

New Technology Tailored for European Distribution



High customer value

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) costs, shorter payback times
- Guaranteed lower degradation for the first year and annually
- Designed for compatibility with existing modern system components, higher return on investment
- N-type solar technology promotes slower degradation and excellent low-light performance

High energy efficiency

- Excellent IAM (Incidet Angle Modifier) and low performance of irradiation, validated by certifications
- Unique design provides optimized energy production in shady conditions

High reliability

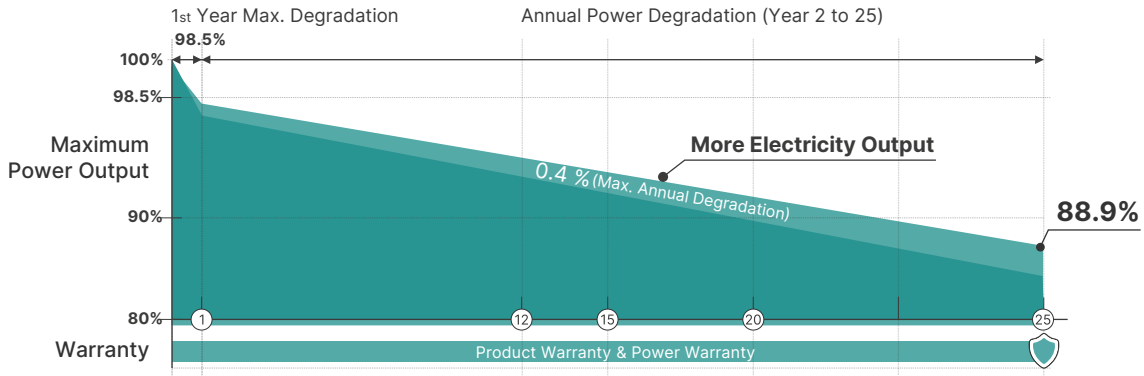
- Micro-cracks reduced to a minimum with the innovative technology of non-destructive cutting
- PID resistance ensured by cell process control of the module material
- Resistant to harsh environments such as salt, ammonia, sand, areas at high temperature and high humidity
- Mechanical performances up to 5400 Pa of positive load and 2400 Pa of negative load
- Class C fire safety test passed

23.04%
Maximum Efficiency

0 ~ +5W
Positive Power Tolerance

15 Years
Product Warranty

25 Years
Power Warranty



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Electrical Data(STC / NOCT)

Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts-P_{MAX} (Wp)*	570	429	575	432	580	436	585	440	590	444	595	448
Power Tolerance-P_{MAX} (W)	0 ~ +5											
Maximum Power Voltage-V_{MPP} (V)	43.20	41.00	43.40	41.20	43.60	41.40	43.80	41.60	44.00	41.80	44.20	42.00
Maximum Power Current-I_{MPP} (A)	13.19	10.44	13.25	10.49	13.30	10.53	13.36	10.57	13.42	10.61	13.48	10.65
Open Circuit Voltage-V_{OC} (V)	51.00	48.50	51.20	48.60	51.40	48.80	51.60	49.00	51.80	49.20	52.00	49.40
Short Circuit Current-I_{SC} (A)	14.02	11.32	14.08	11.37	14.14	11.42	14.20	11.46	14.26	11.50	14.32	11.54
Module Efficiency η m (%)	22.06	22.06	22.25	22.25	22.44	22.44	22.64	22.64	22.84	22.84	23.04	23.04

* 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%.

Electrical Characteristics With Different Rear Side Power Gain

5% Maximum Power-P_{MAX} (Wp)	599	604	609	614	619	624
5% Module Efficiency η m (%)	23.16	23.36	23.56	23.77	23.97	24.17
15% Maximum Power-P_{MAX} (Wp)	656	661	667	673	679	685
15% Module Efficiency η m (%)	25.36	25.59	25.81	26.03	26.25	25.48
25% Maximum Power-P_{MAX} (Wp)	713	719	725	731	737	743
25% Module Efficiency η m (%)	27.57	27.81	28.05	28.29	28.53	28.77

* Power Bifaciality: 80±5%

Mechanical Data

Solar Cells	Monocrystalline
Cell Orientation	N-TOPCon 144cells (6 x 24)
Module Dimensions	2279mm × 1134mm × 30mm
Weight	29.00kg
Front Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Back Glass	Transparent Backsheet
Frame	30mmSilver,anodized aluminium alloy
J-Box	IP 68 Rated(3 Bypass Diodes)
Cables	Photovoltaic Technology Cable 4.0mm² 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

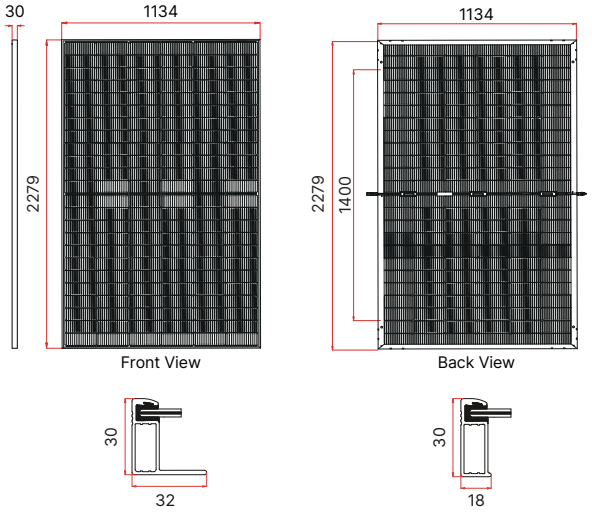
Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A
Mechanical Performance	P 5400Pa / N 2400Pa

Packaging Configureation

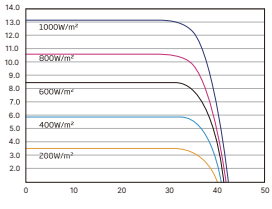
Modules Per Pallet: 37 Pieces

Modules Per 40' Container: 740 Pieces

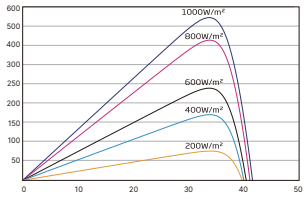
Dimensions of PV Module (mm)



I-V Curves of PV Module (570W)



P-V Curves of PV Module (570W)



Warranty

15 Years Product Warranty

25 Years Power Warranty

1.5% First Year Degradation

0.4% Annual Power Degradation

* Please refer to product warranty for details.

Website: www.maysunsolar.com