

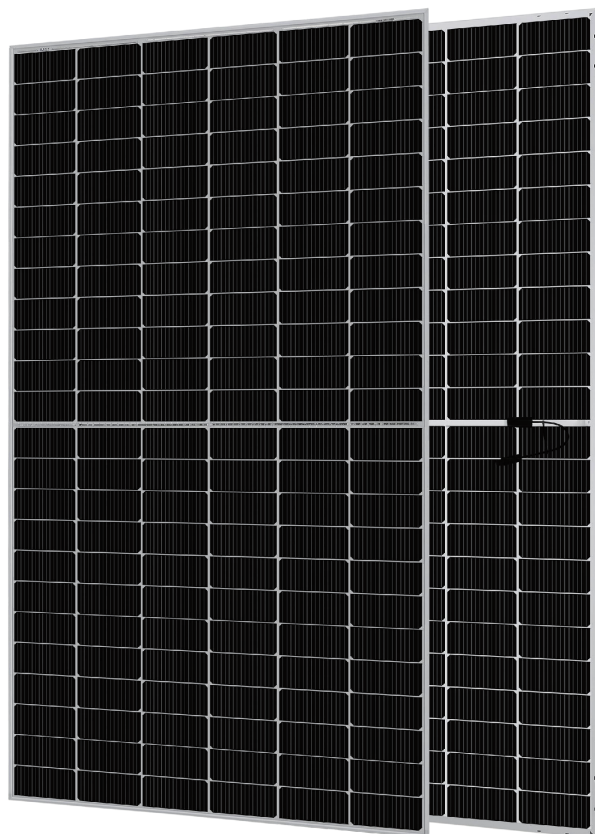
N-TOPCON

1/2 Cut

Double Glass 570-595W

MS(570-595)MDG-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.



Elegance

Full-black aesthetics, the best choice for BAPV. More excellent for snowy environments.



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.

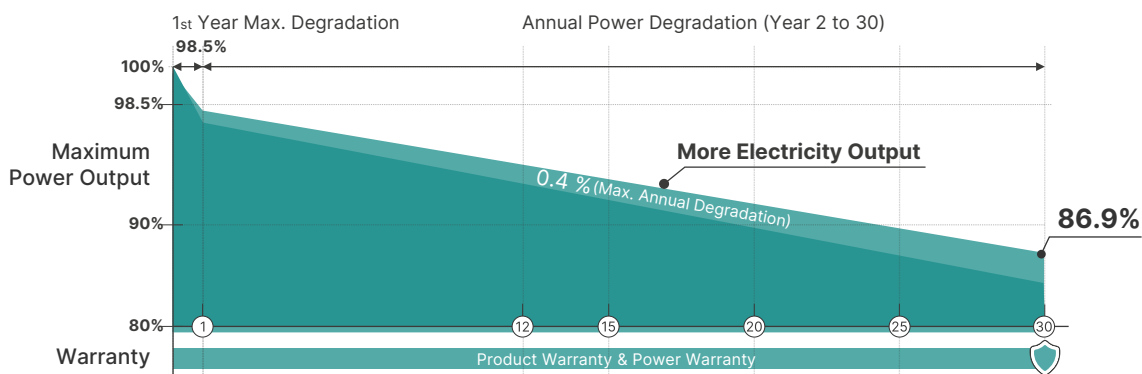


23.04%
Maximum Efficiency

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)*	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	32.00kg
Front Glass	2.0mm, Low Iron, AR Coated Heat Strengthened Glass
Encapsulant material	POE
Back Glass	2.0mm, Low Iron, AR Coated Heat Strengthened Glass
Frame	Silver, Anodized Aluminium Alloy
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

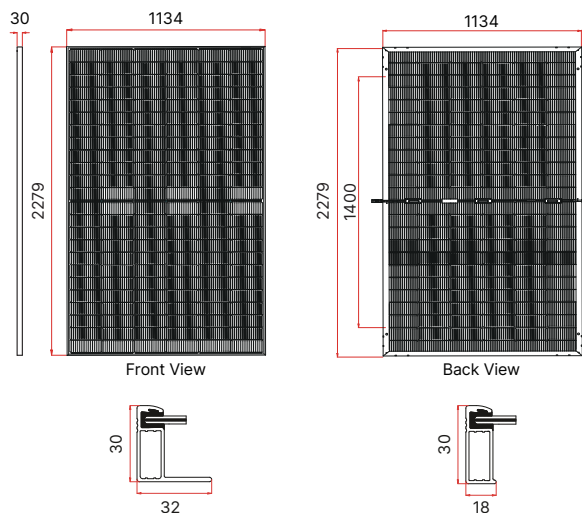
Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	(IEC)30A
Mechanical Performance	P 5400Pa / N 2400Pa

Packaging Configuration

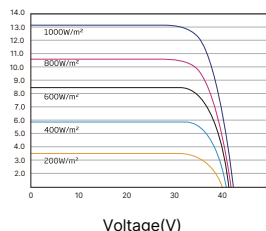
Modules Per Pallet: 36 Pieces

Modules Per 40' Container: 720 Pieces

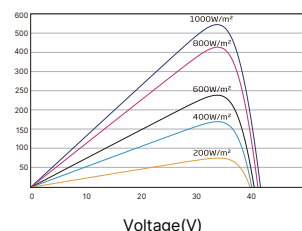
Dimensions of PV Module (mm)



I-V Curves of PV Module (565W)



P-V Curves of PV Module (565W)



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.