Maysun Solar

IBC Technology

1/2 Cut
Silver Frame 560-600W

MS(560-600)BC-72H
Mono IBC 182mm 144 Cells

Advanced Solar Technology

Better Appearance
Without the visual impact of the welding strips on the front-side, the pure beauty of the solar cells is perfectly presented.

High Power Generation Efficiency
There is no metal welding strips on the front-side of the module. The power generation area of the front-side increases by 2.5%.

No Light Pollution
The light reflectivity of the module is only 1.7% due to no welding strip technology on the front-side. It reduces light pollution to the environment and neighbors.

No Hot Spot Rffect When be Blocked
Using unique all back contact technology, the the positive and negative metal electrodes flow normally on the back-side when be blocked, reducing the risk of hot spots.

Long Warranty of 25 Years
The encapsulating materials use TPE backsheet, which is covered with PVF (Tedlar) film and use improved EPE film, ensuring service life of 25 years.

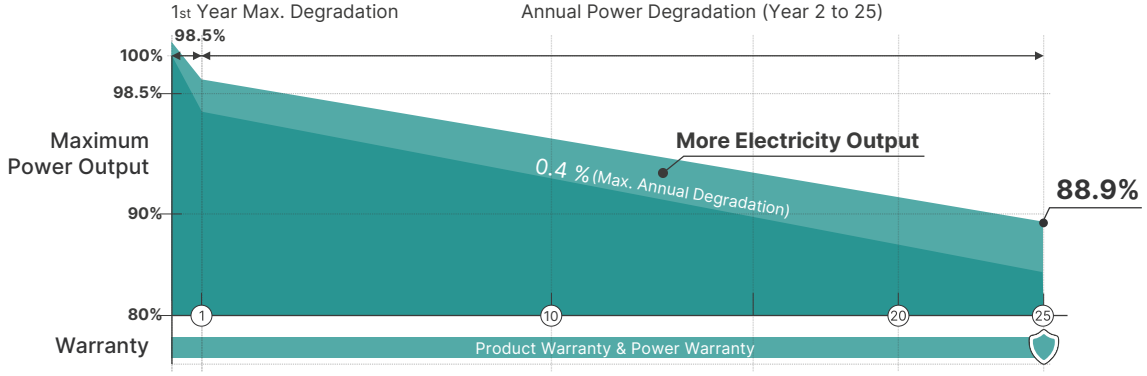
Better Performance in Low Light Scenes
No shield of metal electrodes on the front-side enables a spectral absorption range of 300nm-1200nm, which extends the working time. The maximum power generation gain is 2.01%.

23.20%
Maximum Efficiency

0 ~ +5W
Positive Power Tolerance

25 Years
Product Warranty

25 Years
Power Warranty



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Electrical Data(STC)

Test Conditions	STC	STC	STC	STC	STC	STC	STC	STC	STC
Peak Power Watts-P_{MAX} (Wp)*	560	565	570	575	580	585	590	595	600
Power Tolerance-P_{MAX} (W)	0 ~ +5								
Maximum Power Voltage-V_{MPP} (V)	43.56	43.61	43.86	43.91	44.06	44.21	44.36	44.51	44.66
Maximum Power Current-I_{MPP} (A)	12.92	12.98	13.05	13.11	13.18	13.24	13.31	13.37	13.44
Open Circuit Voltage-V_{OC} (V)	51.61	51.86	51.91	52.06	52.21	52.36	52.51	52.66	52.81
Short Circuit Current-I_{SC} (A)	13.97	14.03	14.09	14.15	14.21	14.27	14.33	14.40	14.46
Module Efficiency η m (%)	21.70	21.90	22.10	22.30	22.50	22.60	22.80	23.00	23.20

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

Electrical Data(NOCT)

Test Conditions	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT	NOCT
Peak Power Watts-P_{MAX} (Wp)*	420	421	427	429	434	437	441	445	448
Power Tolerance-P_{MAX} (W)	0 ~ +5								
Maximum Power Voltage-V_{MPP} (V)	39.67	39.78	39.94	40.06	40.21	40.34	40.48	40.62	40.75
Maximum Power Current-I_{MPP} (A)	10.60	10.65	10.70	10.74	10.80	10.84	10.90	10.97	11.00
Open Circuit Voltage-V_{OC} (V)	48.46	48.60	48.74	48.88	49.02	49.16	49.30	49.44	49.58
Short Circuit Current-I_{SC} (A)	11.27	11.32	11.37	11.42	11.47	11.52	11.57	11.63	11.68
Module Efficiency η m (%)	21.70	21.90	22.10	22.30	22.50	22.60	22.80	23.00	23.20

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

Mechanical Data

Solar Cells	Monocrystalline
Cell Orientation	144 cells
Module Dimensions	2278mm × 1134mm × 30mm
Weight	27.20kg
Front Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA
Backsheet	White
Frame	30mm, Silver, Anodized Aluminium Alloy
J-Box	IP 68 Rated(3 Bypass Diodes)
Cables	Photovoltaic Technology Cable 4.0mm² Portrait: N 1200mm / P 1200mm Length Can be Customized
Connector	MC4 Compatible

* Please refer to regional datasheet for specific connector.

Temperature Ratings

NOCT(Nominal Operating Cell Temperature)	45°C (±2°C)
Temperature Coefficient of P_{MAX}	-0.29% / °C
Temperature Coefficient of V_{OC}	-0.23% / °C
Temperature Coefficient of I_{SC}	0.05% / °C

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

Application Environment

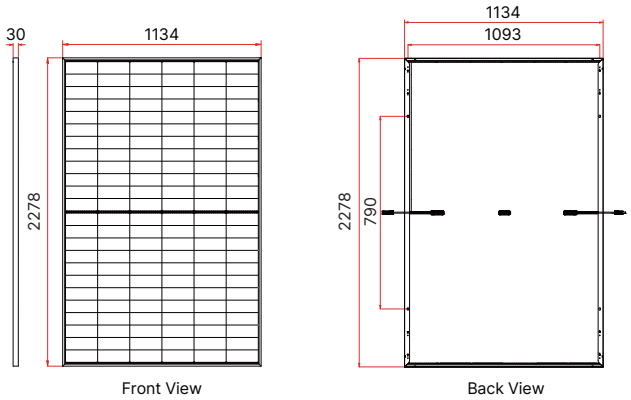
Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500VDC(IEC)
Max Series Fuse Rating	25A
Mechanical Performance	P 5400Pa / N 2400Pa

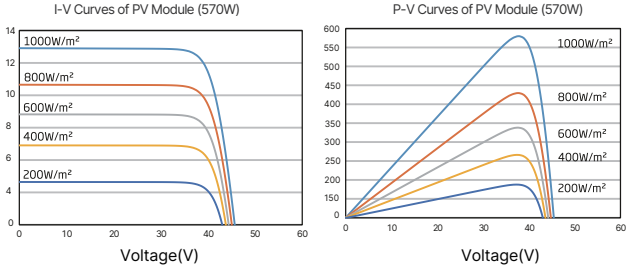
Packaging Configureation

Modules Per Pallet: 36 Pieces

Modules Per 40' Container: 720 Pieces

Dimensions of PV Module (mm)





Warranty

25 Years Product Warranty

25 Years Power Warranty

1.5% First Year Degradation

0.4% Annual Power Degradation

* Please refer to product warranty for details.

Caution: Read safety and installation instructions before using the product.
Specifications included in this datasheet are subject to change without notice.

Website: www.maysunsolar.com