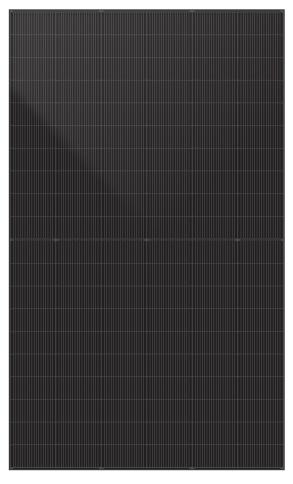


Maysun Solar

VenuSun Plus
1/2 Cut N-Topcon
500-525W

MS(500-525)MB-60HR-BB Mono N-Type 182*95.8mm 120 Cells





N-type Technology

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



Safer Operation

Minimal heat loss, lower operating temperature, reduced hot spot risk, enhanced electrical safety.



Extreme Environment

High salt mist and ammonia resistance.



Mechanical Load Enhanced

5400Pa front side max static test load 2400Pa rear side max static test load.



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.









(PVP)

Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

23.22%

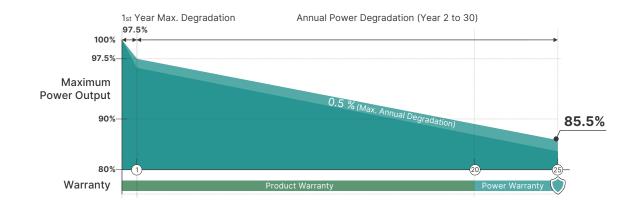
Maximum Efficiency

0 ~ +5W

Positive Power Tolerance

20 Years

Product Warranty





Maysun Solar

Electrical Data(STC / NOCT)

Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts-P _{MAX} (Wp)*	500	376	505	380	510	384	515	387	520	391	525	395
Power Tolerance-P _{MAX} (W)						0 ~ +5						
Maximum Power Voltage-V _{MPP} (V)	37.10	35.20	37.30	35.40	37.50	35.60	37.70	35.80	37.90	36.00	38.10	36.20
Maximum Power Current-I _{MPP} (A)	13.48	10.67	13.54	10.72	13.60	10.77	13.66	10.81	13.72	10.86	13.78	10.91
Open Circuit Voltage-V∞ (V)	43.70	41.50	43.90	41.70	44.10	41.90	44.30	42.10	44.50	42.30	44.70	42.50
Short Circuit Current-I _{SC} (A)	14.48	11.69	14.54	11.74	14.60	11.79	14.66	11.84	14.72	11.88	14.78	11.93
Module Efficiency η m (%)	22.11	22.11	22.33	22.33	22.55	22.55	22.78	22.78	23.00	23.00	23.22	23.22

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

Mechanical Data

Solar Cells	N-type Monocrystalline 182 x 95.8mm
Cell Orientation	120cells (20 x 6)
Module Dimensions	1994mm × 1134mm × 30mm
Weight	23.50kg
Front Glass	3.2mm
Encapsulant material	POE / EVA
Protection Class	Class II
Frame	Black anodized aluminum alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm² Portrait: N 1500mm / P 1500mm 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 PMAX	-0.30% / °C
Temperature Coefficient of Voc	-0.25% / °C
Temperature Coefficient of Isc	0.046% / °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	1500 VDC
Max Series Fuse Rating	
Mechanical Performance	P 5400Pa / N 2400Pa

Warranty

20 Years Product Warranty

25 Years Power Warranty

2.5% First Year Degradation

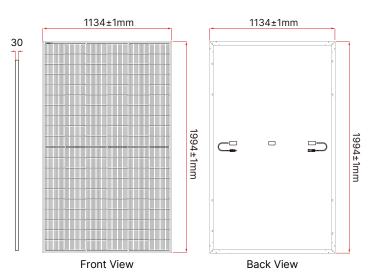
0.5% Annual Power Degradation

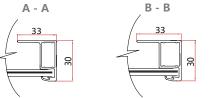
Packaging Configureation

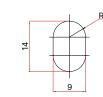
Modules Per Pallet: 36 Pieces

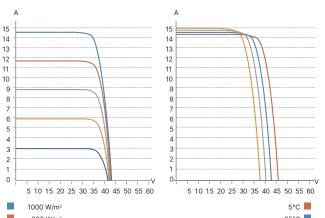
Modules Per 40' Container: 792 Pieces (22 Pallets)

Dimensions of pv module (mm)















^{*} NOCT: Air Mass AM1.5, Irradiance at 800W/m², Cell Temperature 20°C / Measuring tolerance: ±3%.

^{*} Please refer to product warranty for details.