

PWSOLAR

500W N Type

MONOCRYSTALLINE MODULE



ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 23.17% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Power tolerance of $\pm 3\%$.

ELECTRICAL CHARACTERISTICS AT STC

Model	PW500Wp-120M
Maximum Power (P_{max})	500W
Power Tolerance	$\pm 3\%$
Open Circuit Voltage (VOC)	41.55V
Short Circuit Current (ISC)	14.17A
Voltage at Nominal Power (V_{mp})	44.21V
Current at Nominal Power (I_{mp})	13.59A
Size of Module	1906 x 1134 x 30mm
Standard Test condition	Irradiance:1000W/M2 Temp: 25°C , & AM :1.5G spectrum
Maximum system voltage	1000VDC/1500VDC
Operating temperature	- 40°C to +85°C
Module Efficiency	23.17%

ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 \pm 2°C
Voltage temperature coefficient(V_{oc})	-0.330%/°C
Current temperature coefficient (I_{sc})	+0.058%/°C
Power temperature coefficient(P_{mpp})	-0.400%/°C
Minimum power tolerance	+/-10%
NOCT	45 \pm 2°C



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MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline
Number of cell	120pcs (60 x 2)
Size of Module	1906 x 1134 x 30mm
Weight	About 22.50kgs
Front Cover	3.2mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²), (+): 400mm (-): 200mm/Customized
Connector	MC4 or MC4 compatible

MODULE WARRANTY

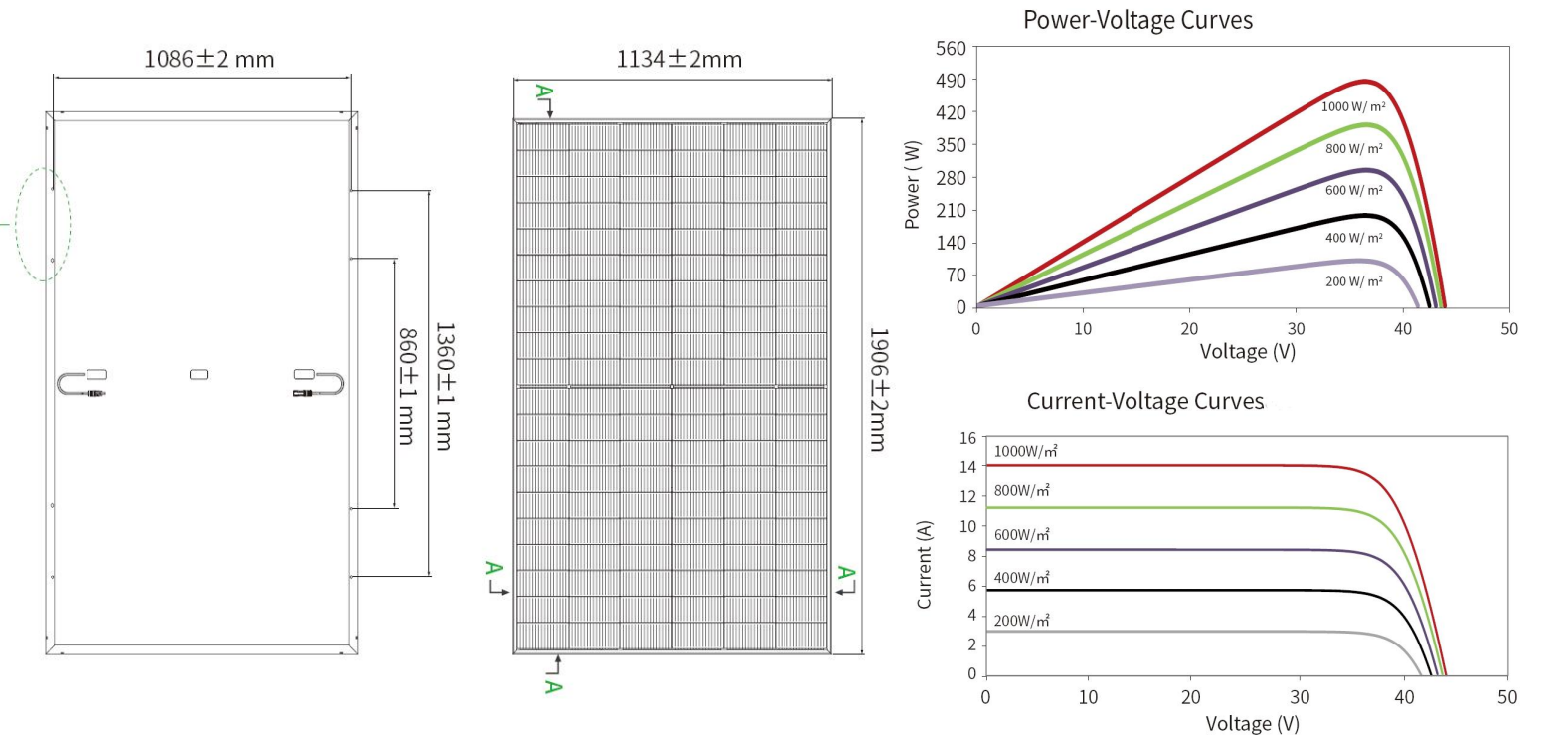
30-year limited warranty of 80% power output; 10-year limited warranty of 90% power output; 12-year limited warranty of materials and workmanship.

PACKING

Standard Packing: 37pcs/Pallet Module Quantity of 20' container: 310pcs Module Quantity of 40' container: 888pcs

ENGINEERING DRAWING

IV CURVES



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