

# PWSOLAR BIFACIAL 500W Double Glass MONOCRYSTALLINE MODULE

## ADVANCED PERFORMANCE & PROVEN ADVANTAGES



- ◆ High module conversion efficiency up to 20.85% 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.
- ◆ Positive power tolerance of 0 ~ +5w.

## ELECTRICAL CHARACTERISTICS AT STC

Model	PWDG500Wp-144M
Maximum Power ( $P_{max}$ )	500W
Power Tolerance	0 ~ + 5W
Open Circuit Voltage (VOC)	49.77V
Short Circuit Current (ISC)	13.19A
Voltage at Nominal Power ( $V_{mp}$ )	40.85V
Current at Nominal Power ( $I_{mp}$ )	12.24A
Size of Module	2094 x 1134 x 35mm
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	20.85%

## ELECTRICAL CHARACTERISTICS AT STC

NOCT	45 +/- 2°C
Voltage temperature coefficient( $V_{oc}$ )	-0.33%/°C
Current temperature coefficient ( $I_{sc}$ )	+0.058%/°C
Power temperature coefficient( $P_{mpp}$ )	-0.400%/°C
Minimum power tolerance	+/-10%
NOCT	45 +/- 2°C



## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline
Number of cell	144pcs (2 x 72)
Size of Module	2094 x 1134 x 35mm
Weight	About 26.00kgs
Front Glass	2.0mm Semi tempered coated glass
Interlayer	EVA/POE/PVB
Back Glass	2.0mm Semi tempered coated glass
Frame	30mm Alumium Frame
Junction Box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), Portrait : 300mm, Landscape: 1200mm
Connector	MC4 or MC4 compatible
Maximum Load Capacity(Pa)	2400(wind load)/5400(snow load)

## MODULE WARRANTY

12 year limited product; limited linear power warranty: 12 year 91.20% of nominal power output, 30 year 80.60% of nominal power output.  
20 years product warranty; 30 years linear power output warranty

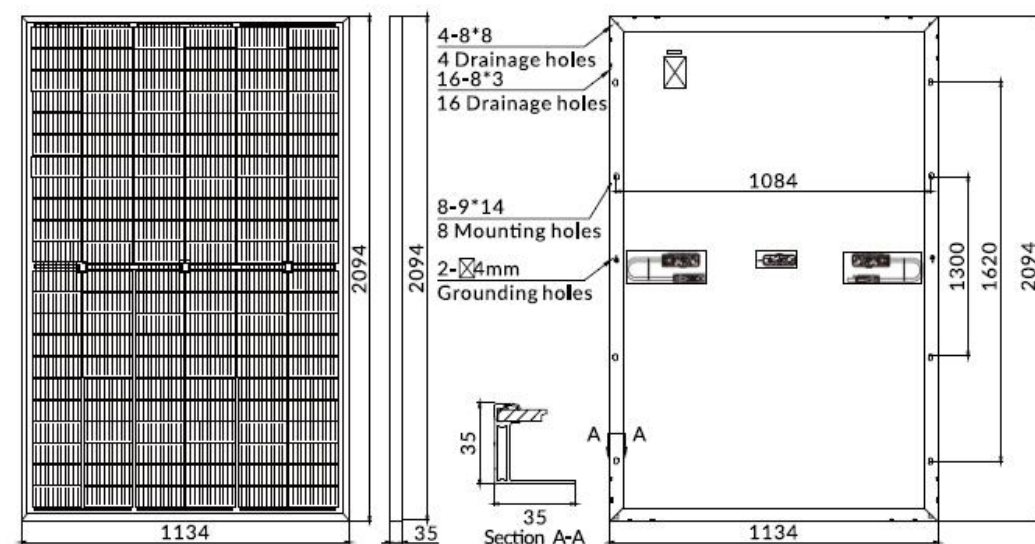
## PACKING

Standarding Packing: 31pcs/Pallet

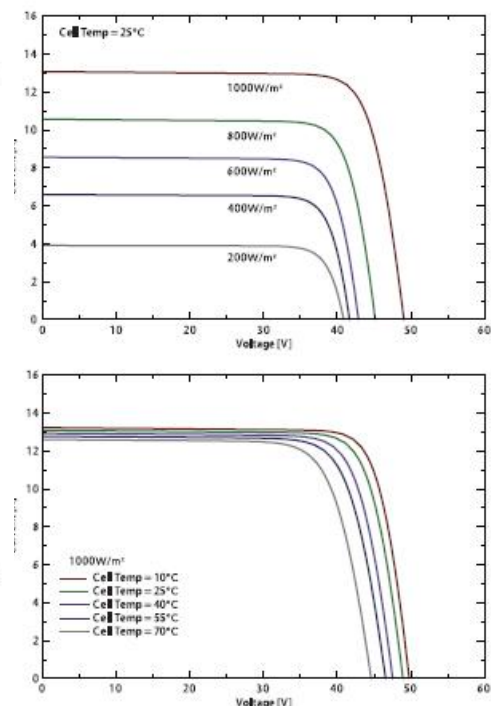
Module Quantity of 20' container: 341pcs

Module Quantity of 40' container: 682pcs

## ENGINEERING DRAWING



## IV CURVES



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