



## SEAL SERIES

Single Glass Bifacial Solar Panel

66 M10 Half Cut Cells (Mono Perc)

**TYPE: AS-(500-520)-66IIMB**

# 500W-520W

## 21.90% efficiency

### ADVANTAGES & FEATURES



#### HIGH SAVING

Lower LCOE, reduced BOS cost shorter payback time



#### HIGH EFFICIENCY

Excellent module conversion efficiency of up to 21.28%



#### LOW-LIGHT PERFORMANCE

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



#### PID RESISTANCE

Excellent Anti-PID performance guarantees limited power degradation for mass production



#### IP68 JUNCTION BOX

High waterproof level



#### BIFACIAL TECHNOLOGY

Up to 30% More Power Output than normal standard PV modules.

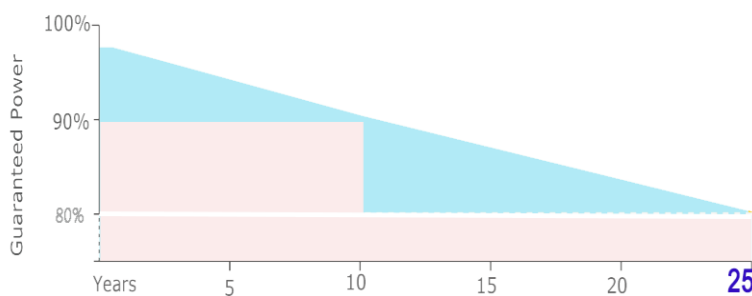
Bi-Faciality Factor:  $70 \pm 5\%$



#### PERC AND HALF CUT CELLS

Stable and Lower Temperature coefficient.

### LINEAR GRAPH



Output Warranty  
**25 Years**

Product Guarantee  
**12 Years**

Power Degradation: < 2% For the First Year  
< 0.5% / Year in 2~25 Years

### CERTIFICATES

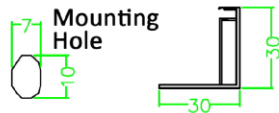
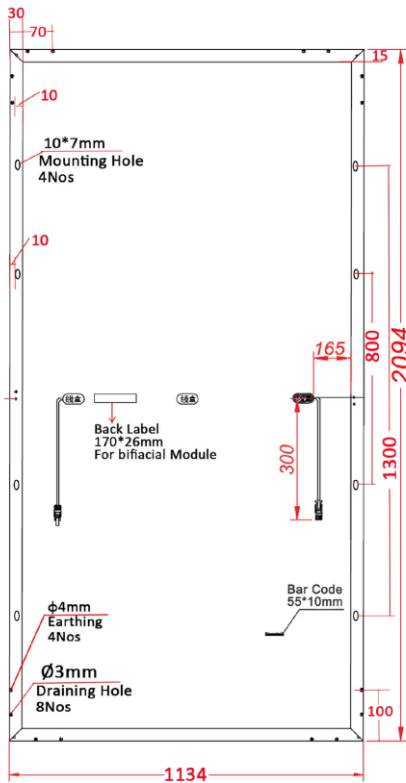


**ELECTRICAL CHARACTERISTIC @STC**

STC: 1000W/M <sup>2</sup> , AM: 1.5, 25°C	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax) (W)	<b>500W</b>	377W	<b>505W</b>	381W	<b>510W</b>	385W	<b>515W</b>	388W	<b>520W</b>	392W		
Max. Power Voltage (Vmpp) (V)	<b>38.70</b>	36.28	<b>38.87</b>	36.53	<b>39.05</b>	36.61	<b>39.23</b>	36.77	<b>39.41</b>	36.94		
Max. Power Current (Impp) (A)	<b>12.92</b>	10.39	<b>12.99</b>	10.43	<b>13.06</b>	10.50	<b>13.13</b>	10.56	<b>13.20</b>	10.61		
Open Circuit Voltage (Voc) (V)	<b>46.67</b>	44.28	<b>46.88</b>	44.52	<b>47.09</b>	44.68	<b>47.31</b>	44.88	<b>47.52</b>	45.09		
Short Circuit Current (Isc) (A)	<b>13.81</b>	11.01	<b>13.89</b>	11.05	<b>13.97</b>	11.13	<b>14.04</b>	11.19	<b>14.11</b>	11.25		
Module Efficiency (Eff%)	<b>21.06%</b>		<b>21.27%</b>		<b>21.48%</b>		<b>21.69%</b>		<b>21.90%</b>			

\*STC (Standard Test Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5 \*Measurement Tolerance (±3.0%)  
\*NOCT (Nominal Module Operating Temperature): Irradiance 800W/ m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

**DRAWING (IN MM)**



**TEMPERATURE COEFFICIENTS**

Temp Coefficients of Pm	-0.360%/°C	Max. System Voltage	1500VDC IEC
Temp Coefficients of Voc	-0.280%/°C	Operating Temp	-40°C to +85°C
Temp Coefficients of Isc	+0.05%/°C	Noct	45°C±2 °C

**MAX. LIMITS**

**MECHANICAL CHARACTERISTICS**

Cell Technology and size	Mono Perc 10BB, 182mmx91mm
Number of Cells (pcs)	132 Pcs Half Cut of M10 (66*2)
Dimensions	2094x1134x30mm
Glass / Front Cover	3.2mm, High Transmission AR coated Safe Glass
Encapsulation	0.55mm,PID free EVA film, UV CUT & UV THROUGH
Rear Cover	0.32mm Transparent Back Sheet, High Light Transmission
Weight	25.5kgs
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Certified,3 Bypass diodes, split junction box
Cables & Connectors	4mm <sup>2</sup> 12AWG, Length 300mm, MC4 compatible Connectors
Allowable Hail Load	227g steel ball dropped from 1m height
Surface Load	Snow Load 5400pa, Wind Load 2400pa
Series Fuse Rating:	30A
Application Class:	A
Fire Rating Class:	C

**PACKAGING CONFIGURATION**

Modules per Pallet:	37pcs	Modules per 40HQ Container:	740pcs
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