



SHARK SERIES

Bifacial Solar Panel

72 M10 Half Cut Cells (Mono Perc)

TYPE: AS-550-72IIMB

550W

21.28% 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



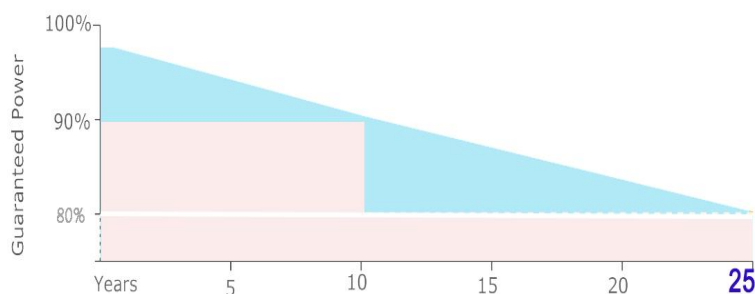
Up to 30% More Power Output than normal standard PV modules.
Bi-Faciality Factor: $70 \pm 5\%$

PERC AND HALF CUT CELLS



Stable and Lower Temperature coefficient

LINEAR GRAPH



**Output
Warranty**

**Product
Guarantee**

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

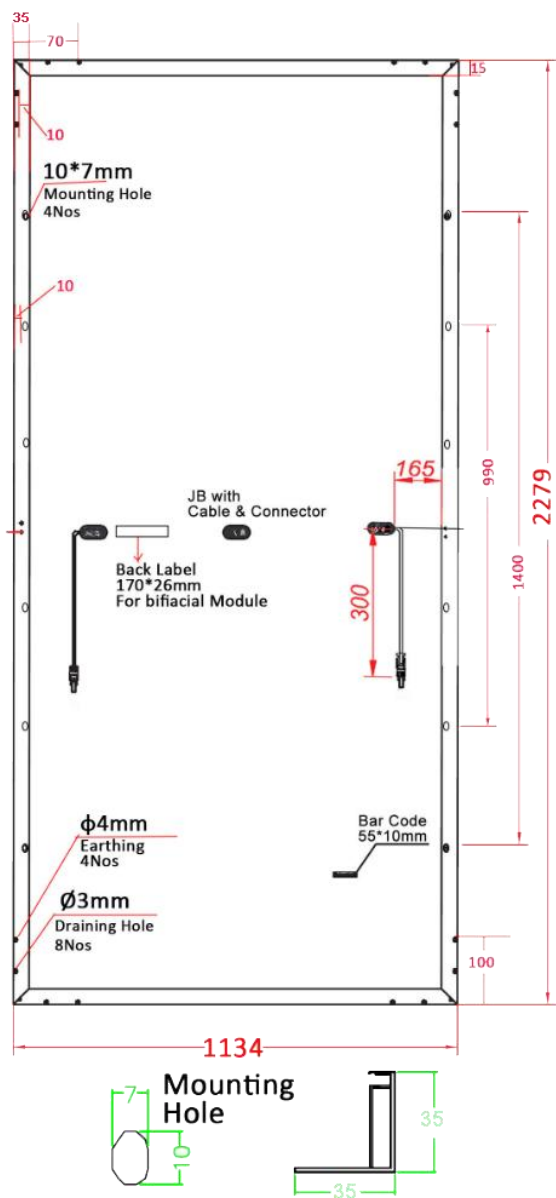
CERTIFICATES



ELECTRICAL CHARACTERISTIC @STC

STC: 1000W/M² , AM: 1.5, 25°C		STC	NMOT
Max. Power (Pmax)	(W)	550W	417W
Max. Power Voltage (Vmpp)	(V)	42.77	39.90
Max. Power Current (Impp)	(A)	12.86	10.45
Open Circuit Voltage (Voc)	(V)	49.83	48.10
Short Circuit Current (Isc)	(A)	13.57	11.07
Module Efficiency	(Eff%)	21.28%	
*STC (Standard Test Condition): Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass 1.5		*Measurement Tolerance (±3.0%)	
*NMOT (Nominal Module Operating Temperature): Irradiance 800W/ m2, Ambient Temperature 20°C, Wind Speed 1m/s.			

DRAWING (IN MM)



TEMPERATURE COEFFICIENTS MAX. LIMITS

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

MECHANICAL CHARACTERISTICS

Cell Technology and size	Mono Perc 10BB, 182mmx91mm		
Number of Cells (pcs)	144 Pcs Half Cut of M10 (72*2)		
Dimensions	2279x1134x35mm		
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 of High Light Transmission		
Weight	27.5kgs		
Frame	Anodized Aluminum Alloy		
Junction Box	IP68 Certified,3 Bypass diodes, split junction box		
Cables & Connectors	4mm² 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: 32pcs	Modules per 40HQ Container: 640pcs
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IV CURVES

