SHARK SERIES

Dual Glass Bifacial Solar Panel

72 M10 Half Cut Cells (Mono Perc)

TYPE: ALLESUN-(550-570)-72IIMBG

550W-570W

22.06% 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.

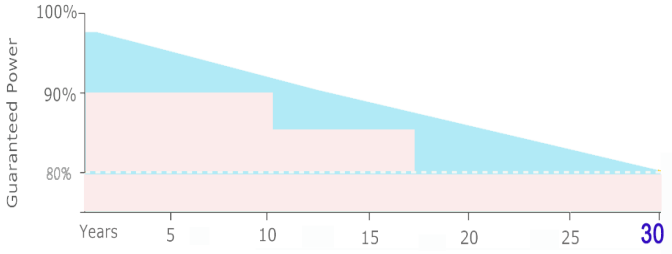
PID RESISTANCE
Excellent Anti-PID performance guarantees Limited power degradation for mass production

IP68 JUNCTION BOX
High waterproof level

DUAL GLASS BIFACIAL
Up to 30% More Power Output than normal standard PV modules and Longer Durable Bi-Faciality Factor: 70 ± 5%

PERC AND HALF CUT CELLS
Stable and Lower Temperature coefficient.

LINEAR GRAPH



Output Warranty 30 Years

Product Guarantee 15 Years

Power Degradation: < 2% For the First Year
< 0.5% / Year in 2~30Years

CERTIFICATES

Intertek · CEC · DEKRA certified · R-41270997 · ISO

Applied Quality Standard
IEC 61370 UL 61730
IEC 61215 ISO 9001
IS 14286 ISO 14001

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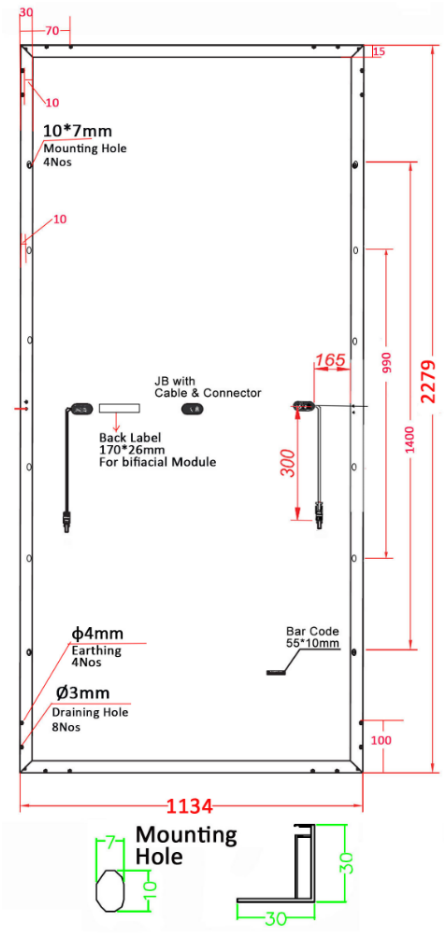
ELECTRICAL CHARACTERISTIC @STC

STC: 1000W/M², AM: 1.5, 25℃		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. Power (Pmax)	(W)	550W	417W	555W	421W	560W	425W	565W	428W	570W	432W
Max. Power Voltage (Vmpp)	(V)	42.77	39.90	42.90	40.02	43.04	40.15	43.18	40.28	43.32	40.41
Max. Power Current (Impp)	(A)	12.86	10.45	12.94	10.51	13.01	10.57	13.09	10.63	13.16	10.69
Open Circuit Voltage (Voc)	(V)	49.83	48.10	49.98	48.25	50.15	48.41	50.31	48.56	50.47	48.72
Short Circuit Current (Isc)	(A)	13.57	11.07	13.65	11.13	13.72	11.19	13.80	11.26	13.88	11.32
Module Efficiency	(Eff%)	21.28%		21.48%		21.67%		21.86%		22.06%	

*STC (Standard Test Condition): Irradiance 1000W/m2, Cell Temperature 25℃, Air Mass 1.5 *Measurement Tolerance (±3.0%)

*NOCT (Nominal Module Operating Temperature): Irradiance 800W/ m2, Ambient Temperature 20℃, Wind Speed 1m/s.

DRAWING (IN MM)



TEMPERATURE COEFFICIENTS MAX. LIMITS

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

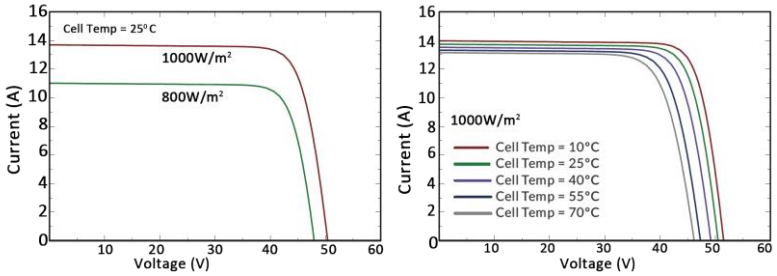
MECHANICAL CHARACTERISTICS

Cell Technology and size	Mono Perc 10BB, 182mmx91mm
Number of Cells (pcs)	144 Pcs Half Cut of M10 (72*2)
Dimensions	2279x1134x30mm
Glass / Front Cover	3.2mm, High Light Transmission AR coated Safe Glass
Encapsulation	0.55mm,PID free EVA film, UV CUT & UV THROUGH
Rear Cover	2.0mm Safety Glass, High Light Transmission
Weight	33.5kgs
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: 37pcs Modules per 40HQ Container: 740pcs

IV CURVES



Allesun

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.