

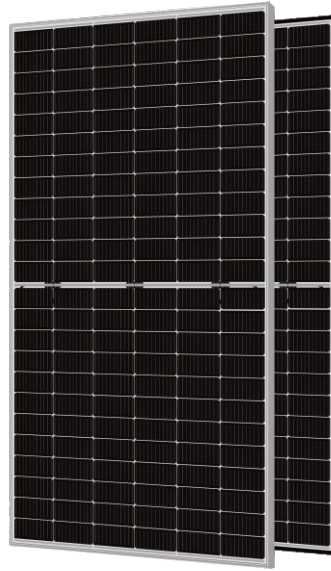
### Shark Bifacial

N-type

Bifacial Double Glass Mono Module

**550-570W**

ISO9001:2015: Quality Management System  
 ISO14001:2015: Environment Management System  
 ISO45001:2018: Occupational health and safety management systems



**570W**

Maximum Power Output

**22.07%**

Maximum Module Efficiency

**0~ +5W**

Power Output Tolerance



**10-30% Additional Power Generation**

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



**Better Weak Illumination Response**

Higher power output even under low-light environments like on cloudy or foggy days



**ZERO LID (Light Induced Degradation)**

N-type solar cell has no LID naturally which can increase power generation



**Better Temperature Coefficient**

Higher power generation under working conditions, thanks to passivating contact cell technology



**Lower LCOE**

Higher bifaciality, higher power output and lower BOS cost



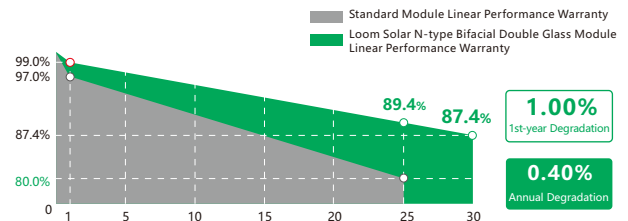
**Wider Applicability**

More application scenes like BIPV, vertical installation, snowfield, high-humid, windy and dusty area

**Loom Solar Delivers Reliable Performance Over Time**

- Leader of high efficiency solar modules.
- Full-automatic facility and industry-leading technology
- Best-in-class durability and reliability

**Linear Performance Warranty**



12 Years Product Material & Workmanship

30 Years Linear Performance Warranty



# Shark Bifacial | N-type Bifacial Double Glass Mono Module

## Electrical Properties | STC\*

Peak Power (Pmax) (W)	550	560	570
MPP Voltage (Vmp) (V)	42.0	42.4	42.8
MPP Current (Imp) (A)	13.10	13.21	13.32
Open Circuit Voltage (Voc) (V)	50.28	50.68	51.08
Short Circuit Current (Isc) (A)	14.00	14.12	14.24
Module Efficiency (%)	21.29	21.68	22.07

\*STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5  
The data above is for reference only and the actual data is in accordance with the practical testing  
Power Measurement Tolerance ±3%

## Electrical Properties | NOCT\*

Peak Power (Pmax) (W)	417	424	432
MPP Voltage (Vmp) (V)	39.5	39.8	40.2
MPP Current (Imp) (A)	10.56	10.65	10.74
Open Circuit Voltage (Voc) (V)	48.0	48.4	48.7
Short Circuit Current (Isc) (A)	11.18	11.28	11.38

\*NOCT: Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s

## Operating Properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	30
Power Tolerance	0~+5W
Bifaciality*	80%

\*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%

## Temperature Coefficient

Temperature Coefficient of Pmax*	-0.300%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

\*Temperature Coefficient of Pmax±0.03%/°C

## Mechanical Properties

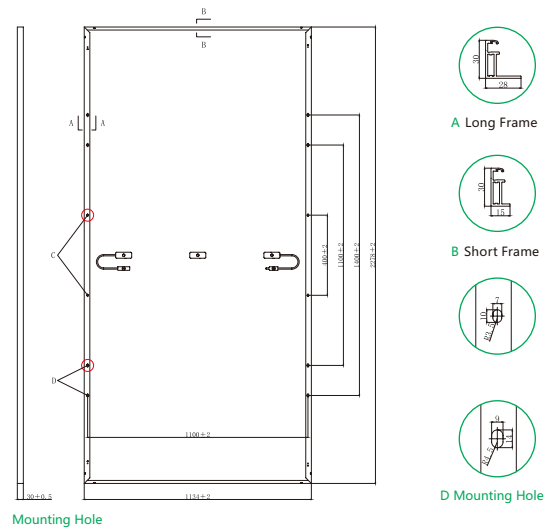
Cell Size	182.00mm*91.00mm
Number of Cells	144pcs(12*12)
Module Dimension	2278mm*1134mm*30mm
Weight	32.5kg
Front / Rear Glass*	2.0mm/2.0mm
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Length of Cable	4.0mm <sup>2</sup> , +300mm/-180mm (Cable length can be customized )

\*Heat strengthened glass

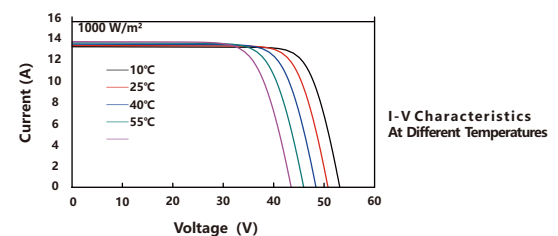
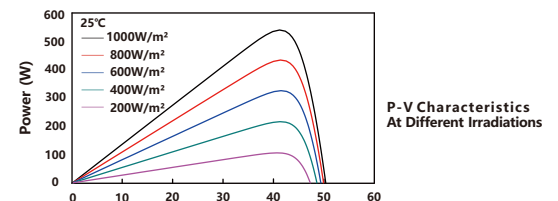
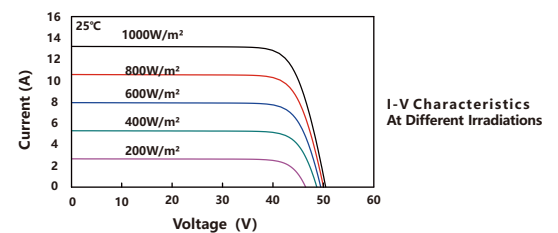
## With Different Power Generation Gain (regarding 550W as an example)

Power Gain (%)	Peak Power (Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Imp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)
10	594	42.0	14.13	50.2	14.97
15	616	42.0	14.65	50.2	15.51
20	638	42.1	15.17	50.3	16.06
25	660	42.1	15.69	50.3	16.61
30	682	42.1	16.20	50.3	17.16

## Engineering Drawing (unit: mm)



## Characteristic Curves | HD144N-550



## Packaging Configuration

Packing Type	20'GP	40'GP	40'HQ
Piece/Pallet		35	
Pallet/Container	4	10	20
Piece/Container	140	350	700

