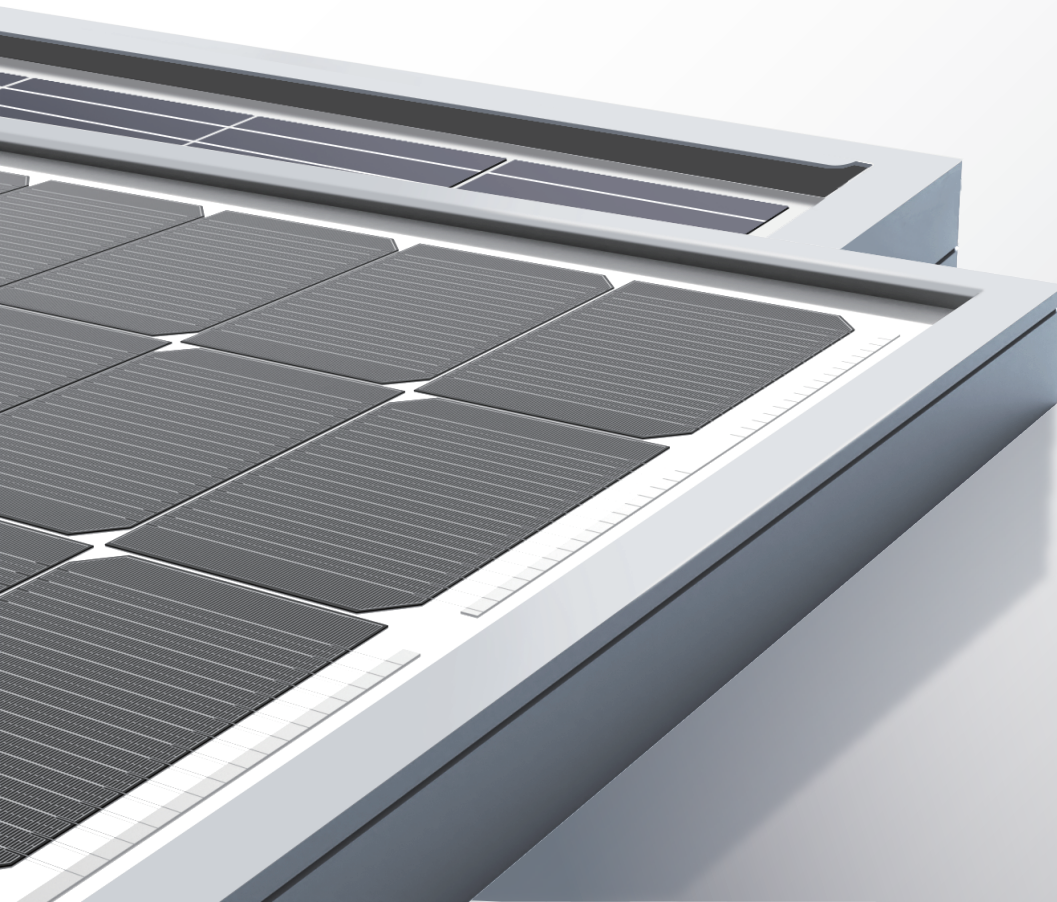


N  
182mm

# 560~580W

182mm Cells Mono  
N-type TOPCon with the 16BB & Half-cut  
Technology



*Bifacial*



**Hi Neo**  
4



N-TOPCon Cell Technology



Low Power Degradation



Excellent An-PID, Low LID Performance



Excellent Durability



Excellent Low Irradiance Performance



Reduced Hot Spot Risk

## Complete System and Product Certifications

\*IEC 61215, IEC 61730, UL 61730

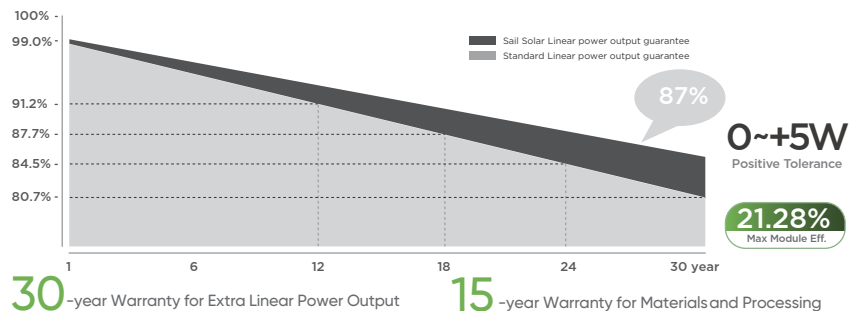
\*ISO 9001:2008: ISO Quality Management System

\*ISO 14001: 2004: ISO Environment Management System

\*OHSAS 18001: 2007 Occupational Health and Safety

\*Specifications subject to technical changes and tests. Sail Solar reserves the right of interpretation.

## Quality Guarantee

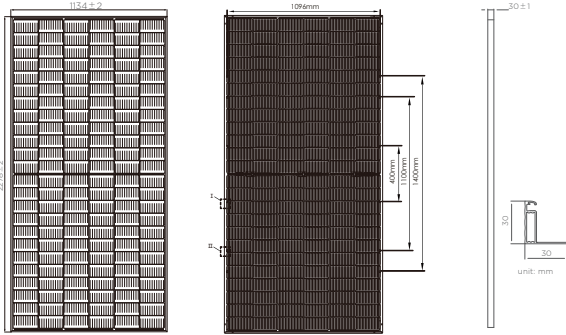


**30**-year Warranty for Extra Linear Power Output

**15**-year Warranty for Materials and Processing

# 560~580W

## Mechanical Parameters



\*Units: mm \*Tolerance: ±2mm

<b>Cell Orientation</b>	144 (2×72)
<b>Junction Box</b>	IP68, three diodes
<b>Output Cable</b>	4mm <sup>2</sup> , 300mm in length, length can be customized
<b>Glass</b>	Double glass
<b>Front Glass</b>	2.0mm, Anti-Reflection Coating
<b>Back Glass</b>	2.0mm, Heat Strengthened Glass
<b>Frame</b>	Anodized aluminum alloy frame
<b>Weight:</b>	32kg±3%
<b>Dimension</b>	2278x1134x30mm
<b>Packaging</b>	36pcs per pallet 720pcs per 40'ft Container 180pcs per 20'ft Container

<b>Operational Temperature</b>	-40°C~+85°C
<b>Power Output Tolerance</b>	0~+5W
<b>Voc &amp; Isc Tolerance</b>	±3%
<b>Max. System Voltage</b>	DC1500V(IEC/UL)
<b>Max. Series Fuse Rating</b>	25A
<b>NOCT</b>	45±2°C
<b>Safety Class</b>	II
<b>Fire Rating</b>	UL type 1 or 2
<b>Max. Static Load(Front)</b>	5400Pa
<b>Max. Static Load(Back)</b>	2400Pa

## Electrical Characteristics

Model Number	560MN-144HBD		565MN-144HBD		570MN-144HBD		575MN-144HBD		580MN-144HBD	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	560	421	565	425	570	429	575	433	580	437
Open Circuit Voltage (Voc/V)	51.14	48.42	51.28	48.60	51.41	48.78	51.55	48.96	51.68	49.14
Short Circuit Current (Isc/A)	14.01	11.33	14.08	11.39	14.15	11.45	14.22	11.51	14.29	11.57
Voltage at Maximum Power (Vmp/V)	42.11	39.31	42.26	39.46	42.41	39.61	42.56	39.76	42.71	39.91
Current at Maximum Power (Imp/A)	13.30	10.72	13.37	10.77	13.44	10.83	13.51	10.89	13.58	10.95
Module Efficiency(%)	20.52		20.71		20.90		21.09		21.28	
Temperature Coefficient of Isc					+0.045%/°C					
Temperature Coefficient of Voc					-0.250%/°C					
Temperature Coefficient of Pmax					-0.290%/°C					

\* STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

\* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

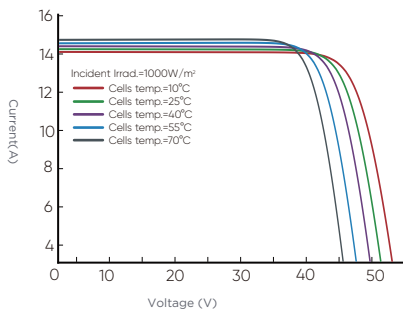
\*Test uncertainty for Pmax: ±3%

## Bifacial Output-Rearside Power Gain

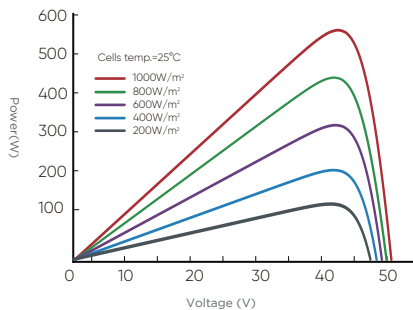
		560MN-144HBD		565MN-144HBD		570MN-144HBD		575MN-144HBD		580MN-144HBD	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
5%	Maximum Power (Pmax)	588W		593W		599W		604W		609W	
	Module Efficiency STC (%)	22.76%		22.97%		23.17%		23.37%		23.57%	
15%	Maximum Power (Pmax)	644W		650W		656W		661W		667W	
	Module Efficiency STC (%)	24.93%		25.15%		25.37%		25.60%		25.82%	
25%	Maximum Power (Pmax)	700W		706W		713W		719W		725W	
	Module Efficiency STC (%)	27.10%		27.34%		27.58%		27.82%		28.07%	

## V-Curve(570MN-144H)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

