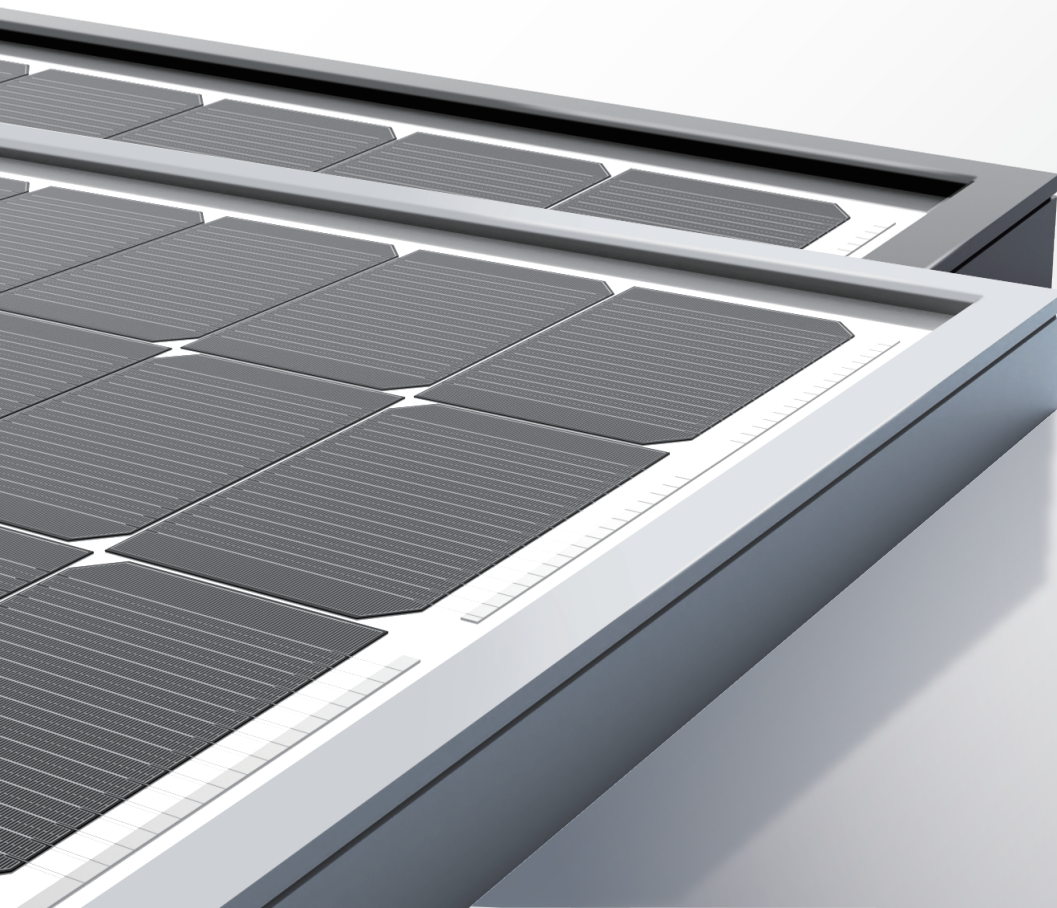


N
182mm

470-490W

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



Single Facial



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

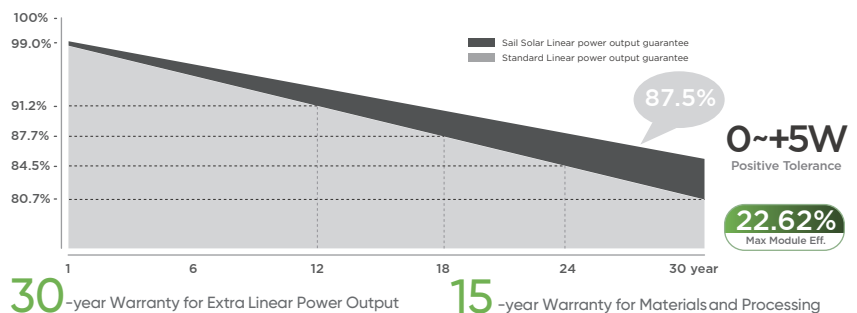
*ISO 9001:2008: ISO Quality Management System

*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.

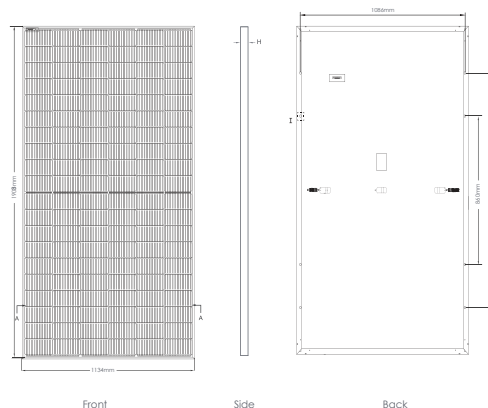
Quality Guarantee



Mechanical Parameters

Cell Orientation	120 (2x60)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	24.2kg±3%
Dimension	1908×1134×35mm
Packaging	31 pcs per pallet 744pcs per 40'ft Container 155pcs per 20'ft Container

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



Electrical Characteristics

Model Number	SAS470MN-120H		SAS475MN-120H		SAS480MN-120H		SAS485MN-120H		SAS490MN-120H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	470	353	475	357	480	361	485	365	490	369
Open Circuit Voltage (Voc/V)	42.85	40.81	43.06	40.99	43.27	41.17	43.48	41.35	43.61	41.53
Short Circuit Current (Isc/A)	14.05	11.32	14.12	11.38	14.19	11.44	14.26	11.50	14.33	11.56
Voltage at Maximum Power (Vmp/V)	35.82	32.99	36.01	33.18	36.20	33.36	36.38	33.55	36.56	33.74
Current at Maximum Power (Imp/A)	13.12	10.70	13.19	10.76	13.26	10.82	13.33	10.88	13.40	10.96
Module Efficiency(%)	21.70		21.93		22.16		22.39		22.62	
Temperature Coefficient of Isc					+0.045%/°C					
Temperature Coefficient of Voc					-0.250%/°C					
Temperature Coefficient of Pmax					-0.290%/°C					

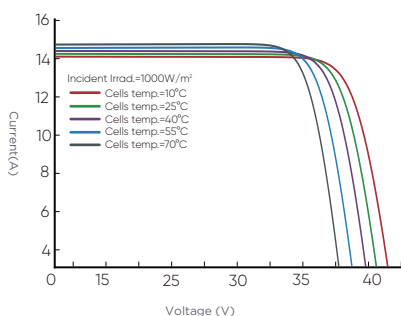
* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5

* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

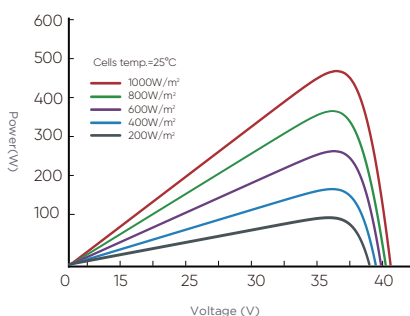
*Test uncertainty for Pmax: ±3%

V-Curve (SAS470MN-120H)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

