

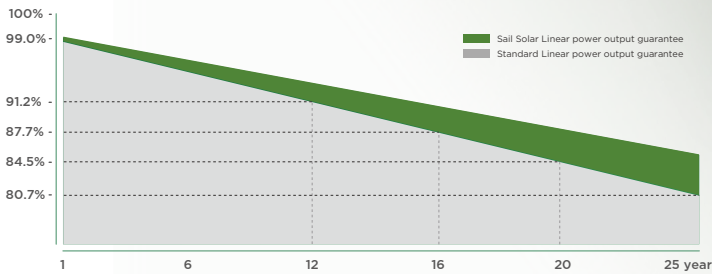
Hi Pro **4** *Bifacial Double Glass*

435~460W

High Efficiency
Low LID Bifacial PERC with
Half-cut Technology

12 12-year Warranty for Materials and Processing

25 25-year Warranty for Extra Linear Power Output



21.26%
Max Module Eff.

0~+5W
Positive Tolerance

P Higher Module Conversion Efficiency

Excellent Durability

Low Power Degradation

Excellent Low Irradiance Performance

PID Excellent An-PID, Low LID Performance

HOT Reduced Hot Spot Risk



Complete System and Product Certifications

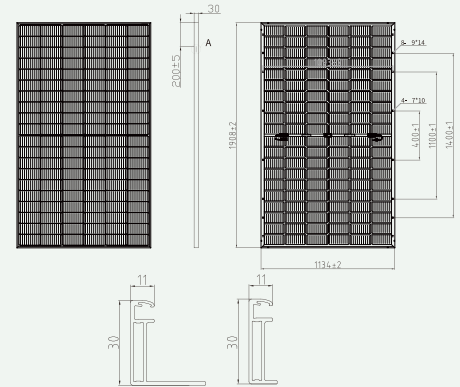
*IEC 61215, IEC 61730, UL 61730
 *ISO 9001:2008:ISO Quality Management System
 *ISO 14001: 2004:ISO Environment Management System
 *OHSAS 18001: 2007 Occupational Health and Safety
 *Specifications subject to technical changes and tests. Sail Solar reserves the right of interpretation.



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	26.9kg±3%
Dimension	1908×1134×30mm
Packaging	36pcs per pallet 864pcs per 40'ft Container 180pcs 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	SAS435MB-120HG		SAS440MB-120HG		SAS445MB-120HG		SAS450MB-120HG		SAS455MB-120HG		SAS465MB-120HG	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	435	326	440	330	445	334	450	338	455	341	460	345
Open Circuit Voltage (Voc/V)	40.82	37.46	40.99	37.66	41.16	37.84	41.33	38.05	41.50	38.25	41.67	38.45
Short Circuit Current (Isc/A)	13.61	10.89	13.69	10.95	13.78	11.02	13.86	11.09	13.94	11.15	14.02	11.22
Voltage at Maximum Power (Vmp/V)	34.18	32.09	34.35	32.20	34.53	32.37	34.70	32.53	34.87	32.69	35.04	32.84
Current at Maximum Power (Imp/A)	12.71	10.17	12.81	10.25	12.89	10.31	12.97	10.38	13.05	10.44	13.13	10.50
Module Efficiency(%)	20.10		20.34		20.57		20.80		21.03		21.26	
Temperature Coefficient of Isc												+0.045%/°C
Temperature Coefficient of Voc												-0.261%/°C
Temperature Coefficient of Pmax												-0.331%/°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

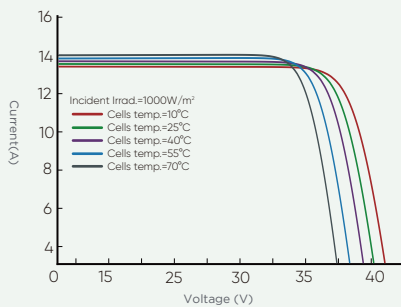
*Test uncertainty for Pmax: ±3%

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES(REFERENCE TO 10% SOLAR ILLUMINANCE RATIO)

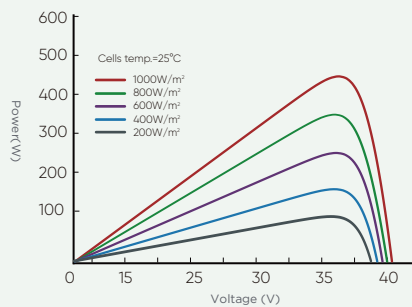
TYPE	SAS435MB-120HG	SAS440MB-120HG	SAS445MB-120HG	SAS450MB-120HG	SAS455MB-120HG	SAS460MB-120HG
Maximum Power (Pmax)	456	462	467	472	477	483
Module Efficiency (%)	21.1	21.3	21.5	21.8	22.0	22.3
Maximum Power (Pmax)	500	506	511	517	523	529
Module Efficiency (%)	23.1	23.3	23.6	23.9	24.1	24.4
Maximum Power (Pmax)	543	550	556	562	568	575
Maximum Power (Pmax)	25.1	25.4	25.7	25.9	26.2	26.5

V-Curve (SAS450MB-108HG)

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

