

SF-M18/G120

465-480W

182*91mm cells 60

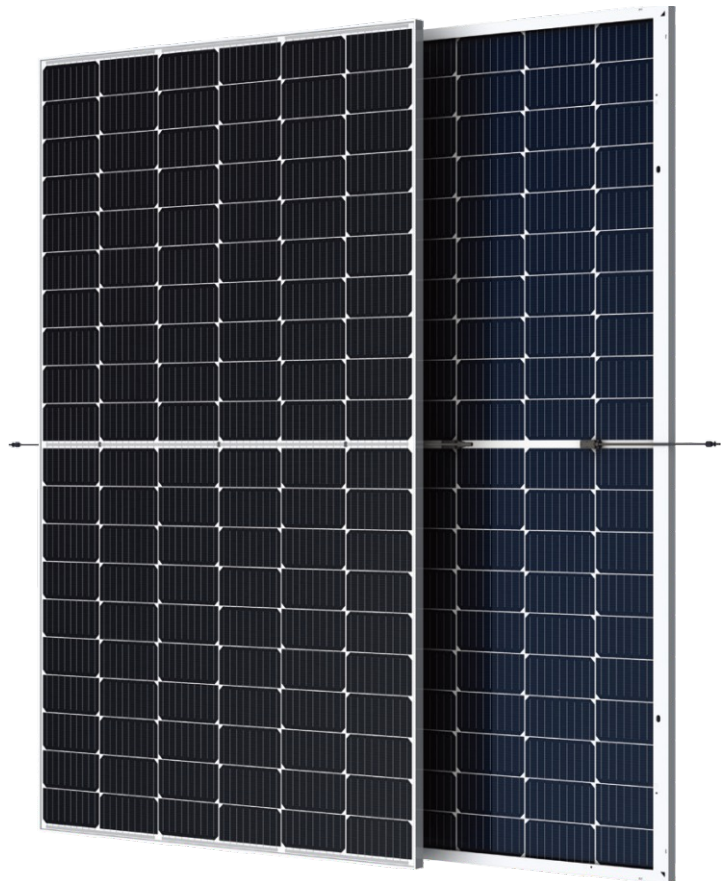
Bifacial Double Glass

N-TYPE half-cell module

Max Power out:480W

Max Efficiency:22.21%

Power tolerance:0~+5W



SMBB Technology

Better light trapping and current collection to improve module power output and reliability



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



HOT 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



Enhanced Mechanical Load

Certified to withstand:wind load (2400 Pascal) and snow load (5400 Pascal).

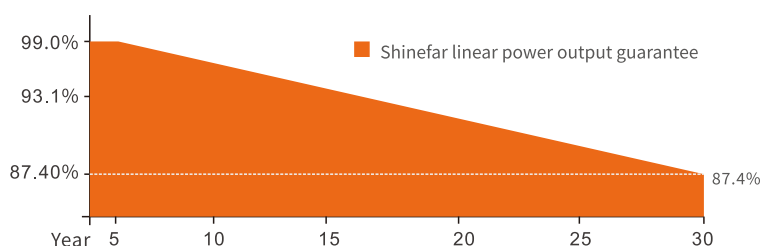


High energy generation, low LCOE

Low Pmax temp coefficient (-0.36%) increases energy production

Superior Warranty

- 15-year material&technology warranty
- 30-year linear power output warranty

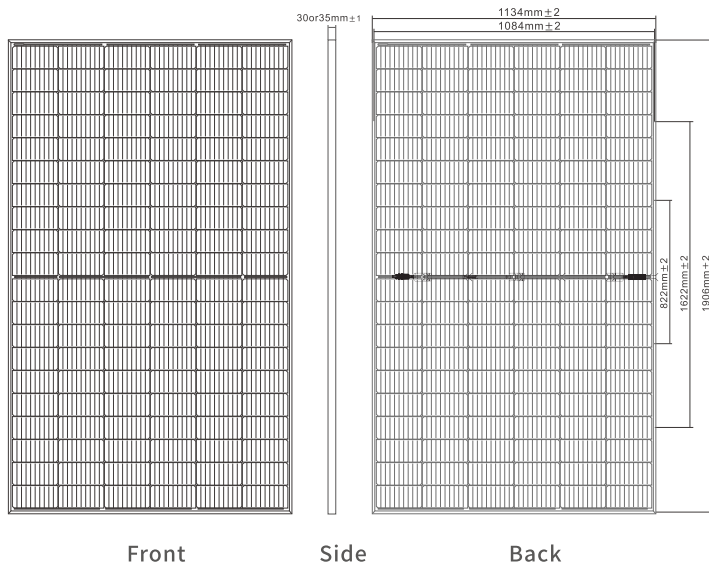


Comprehensive Products and System Certificates

- IEC 61215, IEC 61730, IEC 61701, IEC 62716
- ISO 9001:2015 Quality management systems
- ISO 14001:2015 Environmental management systems
- ISO 45001:2018 Occupational health and safety management systems



Engineering Drawings



Structural parameter

Dimensions of Module	1906x1134x30mm or 1906x1134x35mm
Weight	26.5kg
packing	37/31/pallet,888/744/40hq
Front Glass	High Transparency Solar Glass 2.0mm
Back Glass	Heat Strengthened Glass 2.0mm
Frame	Silver, anodized aluminium alloy
J-Box	IP68 Rated
Cable	4.0mm ² , 300mm
Bypass Diodes	3pcs
Wind/ Snow Load	2400Pa/5400Pa
Connector	MC4 Compatible

Electrical Specification

(STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G — NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s)

Module Type	SF-M18/G120-465		SF-M18/G120-470		SF-M18/G120-475		SF-M18/G120-480	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	465	345.03	470	348.74	475	352.45	480	356.16
Maximum Power Voltage (Vmp) [V]	34.93	32.48	35.08	32.62	35.23	32.76	35.38	32.90
Maximum Power Current (Imp) [A]	13.31	10.62	13.40	10.69	13.48	10.76	13.57	10.82
Open Circuit Voltage (Voc) [V]	41.81	38.88	41.96	39.02	42.11	39.16	42.26	39.30
Short Circuit Current (Isc) [A]	14.05	11.21	14.12	11.27	14.19	11.32	14.26	11.38
Module Efficiency[%]	21.51		21.75		21.98		22.21	
Cell Type[mm]	Mono 182x91,120 cells							
Operational Temperature[°C]	-40~+85°C							
Maximum System Voltage	1500V DC							
Max Series Fuse Rating	25A							

Electrical characteristics with different power bin(reference to 10% Irradiance ratio)

Total Equivalent power(Pmax)[Wp]	512	517	523	528
Maximum Power Voltage (Vmp) [V]	34.93	35.08	35.23	35.38
Maximum Power Current (Imp) [A]	14.64	14.74	14.83	14.92
Open Circuit Voltage (Voc) [V]	41.81	41.96	42.11	42.26
Short Circuit Current (Isc) [A]	15.46	15.53	15.61	15.69
Irradiance ratio(rear/front)	10%			

Temperature Ratings

Nominal Operating Cell Temperature	45±2°C
Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Curve diagram

