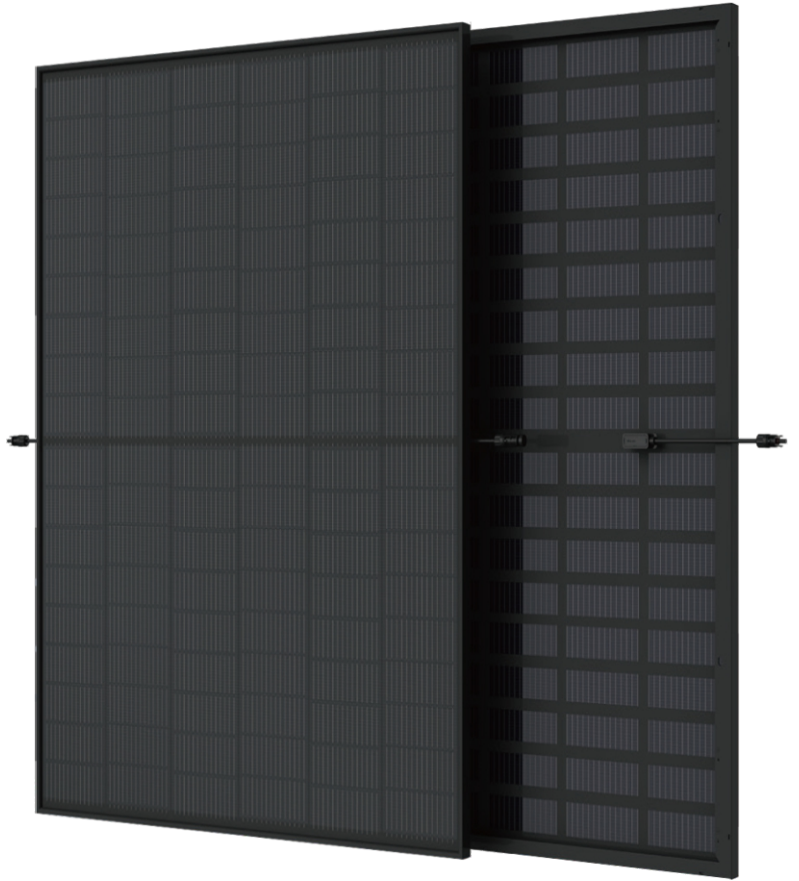


# SF-M18/G108

## 430-445W

### 182±1.5×91±1.5mm

### Cells 108



### Bifacial Double Glass

### N-Type Half-Cell Module

Max Power Out: 445W

Max Efficiency: 22.79%

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.



#### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



#### Enhanced Mechanical Load

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

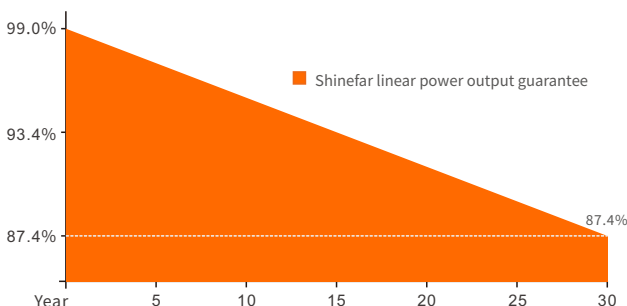


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

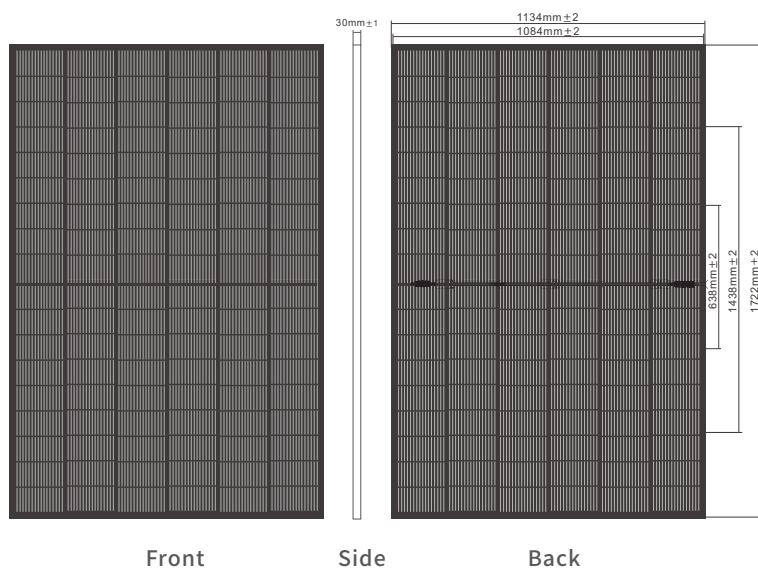


### Comprehensive Products and System Certificates

- IEC/EN61215-1:2021 & IEC/EN61215-2:2021
- IEC/EN61730-1:2016 & IEC/EN61730-2:2016
- UL61730-1:2017 & UL61730-2:2017
- UL61215-1:2017 & UL61215-2:2017
- IEC 61701:2020-Saltmist
- IEC 62716:2013-Ammonia
- IEC 62804:2020-PID
- IECEE Certificate Body (CB)
- UKCA:EN61730-2018
- ISO9001 & ISO14001 & ISO45001



## Engineering Drawings



## Structural Parameter

Dimensions of Module	1722×1134×30mm
Weight	26.3kg
Packing	37PCS/Pallet, 962PCS/40HQ
Front Glass	High Transparency Solar Glass 2.0mm
Back Glass	Heat Strengthened Glass 2.0mm
Frame	Black, Anodized Aluminium Alloy
J-Box	IP68 Rated
Cable	4.0mm <sup>2</sup> , 300mm
Bypass Diodes	3PCS
Wind/ Snow Load	2400Pa/5400Pa
Connector	MC4 Compatible

## Electrical Specification

(STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5G — NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s)

Module Type	SF-M18/G108430		SF-M18/G108435		SF-M18/G108440		SF-M18/G108445	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	430	319.06	435	322.77	440	326.48	445	330.19
Maximum Power Voltage (Vmp) [V]	32.03	29.79	32.20	29.95	32.27	30.10	32.54	30.26
Maximum Power Current (Imp) [A]	13.42	10.71	13.51	10.78	13.59	10.85	13.68	10.91
Open Circuit Voltage (Voc) [V]	37.61	34.98	37.70	35.06	37.79	35.14	37.88	35.23
Short Circuit Current (Isc) [A]	14.38	11.48	14.49	11.56	14.59	11.64	14.69	11.72
Module Efficiency [%]	22.02		22.28		22.53		22.79	
Cell Type [mm]	Mono 182±1.5×91±1.5, 108 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]	473	478.5	484	489.5
Maximum Power Voltage (Vmp) [V]	32.03	32.20	32.37	32.54
Maximum Power Current (Imp) [A]	14.77	14.86	14.95	15.04
Open Circuit Voltage (Voc) [V]	37.61	37.70	37.79	37.88
Short Circuit Current (Isc) [A]	15.82	15.93	16.05	16.16
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	-0.30%/°C

## Curve Diagram

