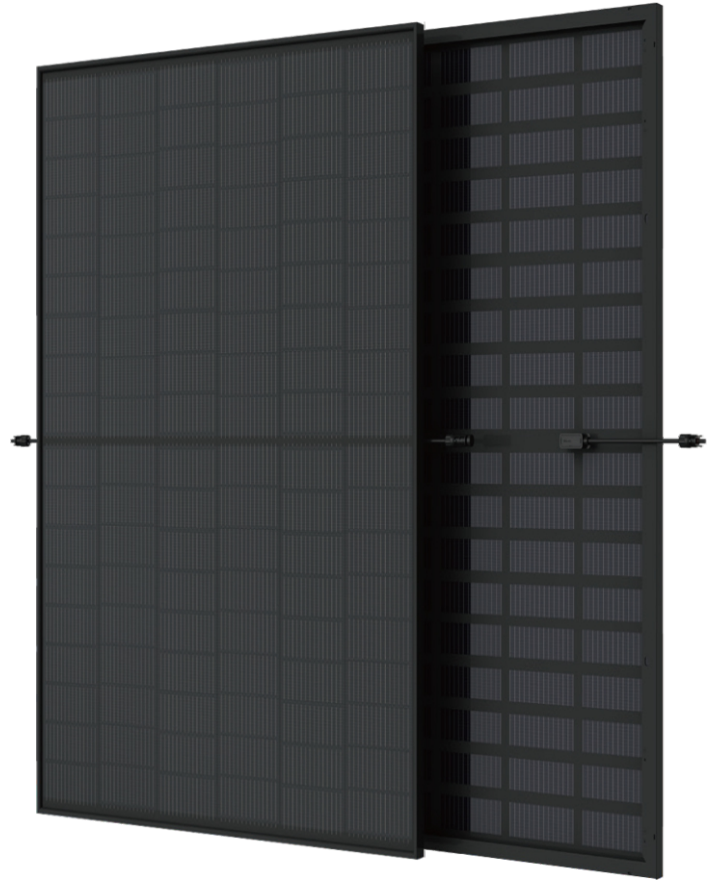


# SF-M18/G108

## 430-445W

182±1.5×92.875±1.5mm  
Cells 108



### Bifacial Double Glass

### N-Type Half-Cell Module

Max Power Out: 445W  
Max Efficiency: 22.27%  
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).

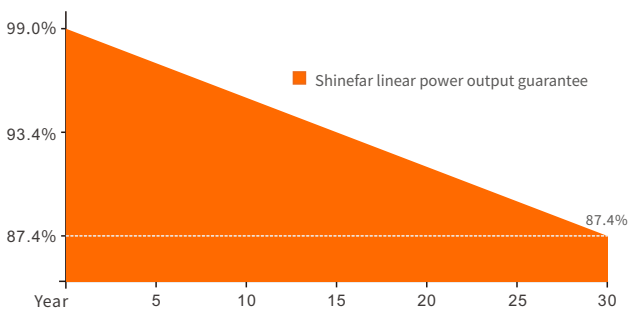


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

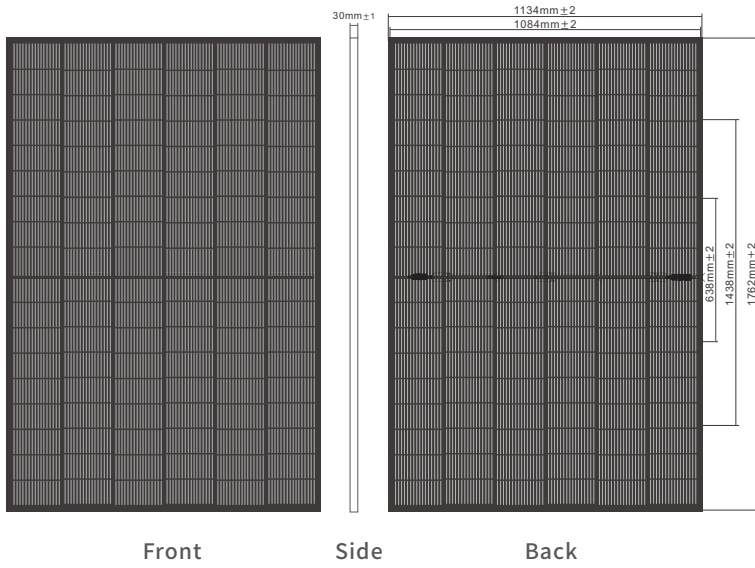


### Comprehensive Products and System Certificates

- 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
- IECCE Certificate Body (CB)
- UKCA:EN61730-2018
- ISO9001 & ISO14001 & ISO45001



## Engineering Drawings



## Structural Parameter

Dimensions of Module	1762×1134×30mm
Weight	24.5kg
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	332	435	326	440	330	445	333
Maximum Power Voltage (Vmp) [V]	32.97	31.57	33.15	31.74	33.33	31.91	33.51	32.08
Maximum Power Current (Imp) [A]	13.04	10.20	13.12	10.27	13.20	10.33	13.28	10.39
Open Circuit Voltage (Voc) [V]	38.37	36.74	38.57	36.93	38.77	37.12	38.97	37.32
Short Circuit Current (Isc) [A]	13.86	11.19	13.93	11.25	14.00	11.30	14.07	11.36
Module Efficiency [%]	21.52		21.77		22.02		22.27	
Cell Type [mm]	Mono 182±1.5×92.875±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]	473.00	478.50	484.00	489.50
Maximum Power Voltage (Vmp) [V]	32.97	33.15	33.33	33.51
Maximum Power Current (Imp) [A]	14.35	14.43	14.52	14.61
Open Circuit Voltage (Voc) [V]	38.37	38.57	38.77	38.97
Short Circuit Current (Isc) [A]	15.26	15.36	15.45	15.54
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

