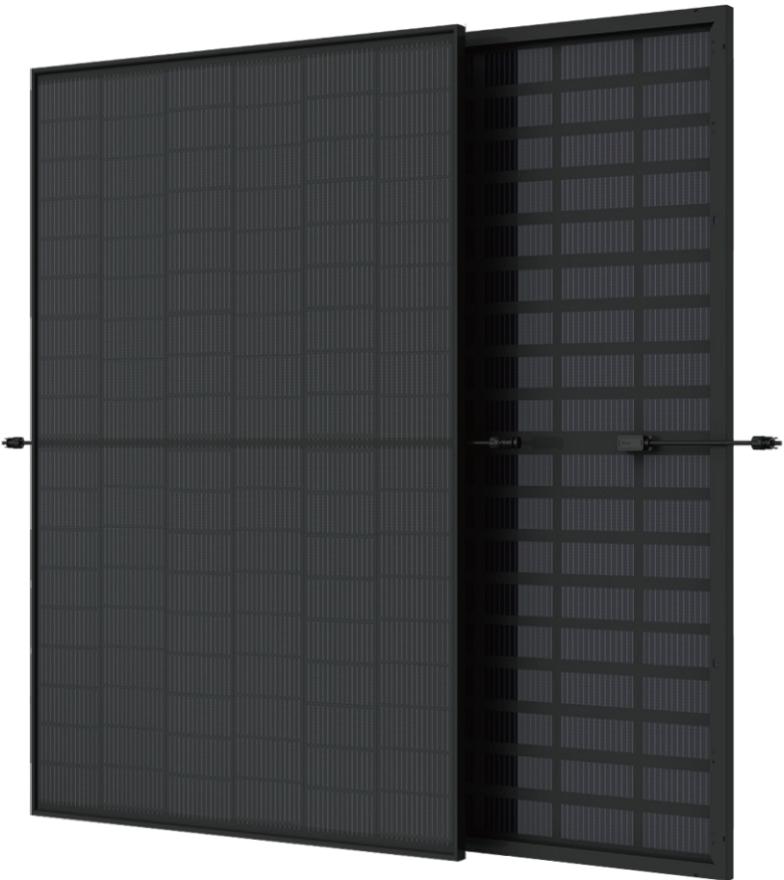


# SF-M18/G108

## 420-435W

### 182×91mm cells 54



#### Bifacial Double Glass

#### N-Type Half-Cell Module

Max Power out: 435W

Max Efficiency: 22.28%

Power tolerance: 0~+5W



#### SMBB Technology

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



#### HOT 2.0 Technology

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



#### PID Resistance

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



#### Enhanced Mechanical Load

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



#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

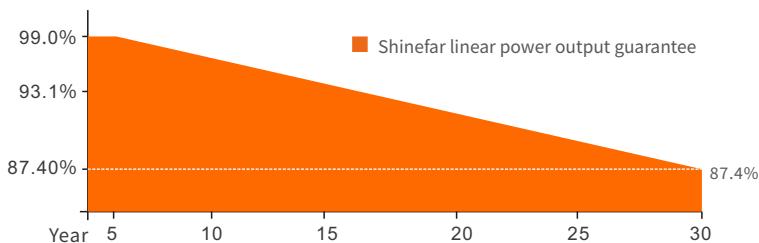


#### High energy generation, low LCOE

Low Pmax temp coefficient increases energy production

#### Superior Warranty

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

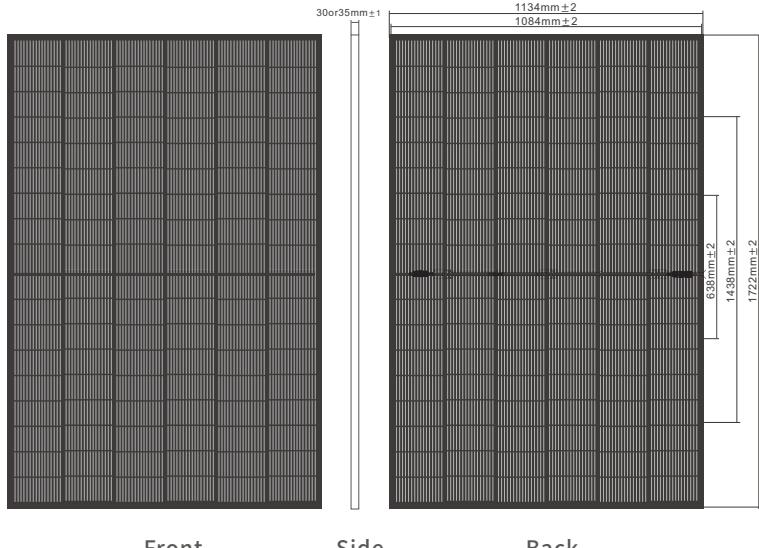


#### Comprehensive Products and System Certificates

- IEC 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



Front

Side

Back

## Structural Parameter

Dimensions of Module	1722×1134×30mm or 1722×1134×35mm
Weight	24kg
Packing	37/31/pallet, 962/806/40HQ
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/G108420		SF-M18/G108425		SF-M18/G108430		SF-M18/G108435							
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT						
Maximum Power (Pmax) [W]	420	311.64	425	315.35	430	319.06	435	322.77						
Maximum Power Voltage (Vmp) [V]	31.69	29.47	31.86	29.63	32.03	29.79	32.20	29.95						
Maximum Power Current (Imp) [A]	13.25	10.57	13.34	10.64	13.42	10.71	13.51	10.78						
Open Circuit Voltage (Voc) [V]	37.43	34.81	37.52	34.89	37.61	34.98	37.70	35.06						
Short Circuit Current (Isc) [A]	14.18	11.31	14.28	11.39	14.38	11.48	14.49	11.56						
Module Efficiency [%]	21.51		21.76		22.02		22.28							
Cell Type [mm]	Mono 182×91, 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]	462	467.5	473	478.5
Maximum Power Voltage (Vmp) [V]	31.69	31.86	32.03	32.20
Maximum Power Current (Imp) [A]	14.58	14.67	14.77	14.86
Open Circuit Voltage (Voc) [V]	37.43	37.52	37.61	37.70
Short Circuit Current (Isc) [A]	15.60	15.71	15.82	15.93
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

