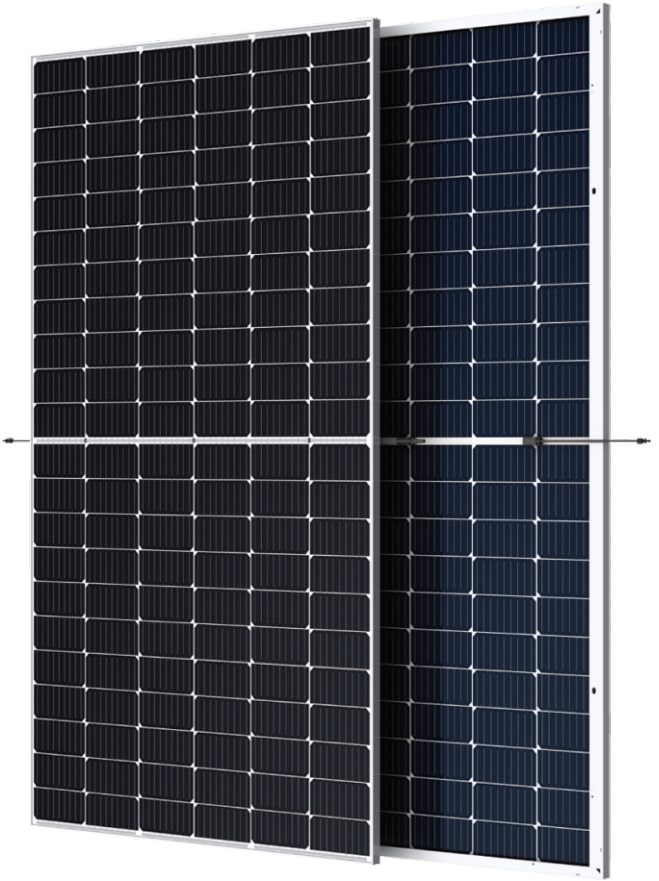


# SF-M18/G132

## 530-545W

### 182±1.5×91±1.5mm

### Cells 132



### Bifacial Double Glass

### N-TYPE Half-Cell Module

Max Power Out: 545W

Max Efficiency: 22.95%

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).

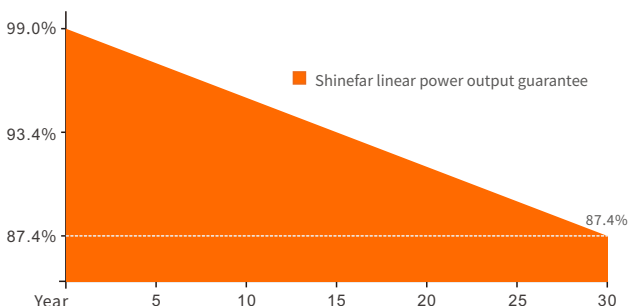


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

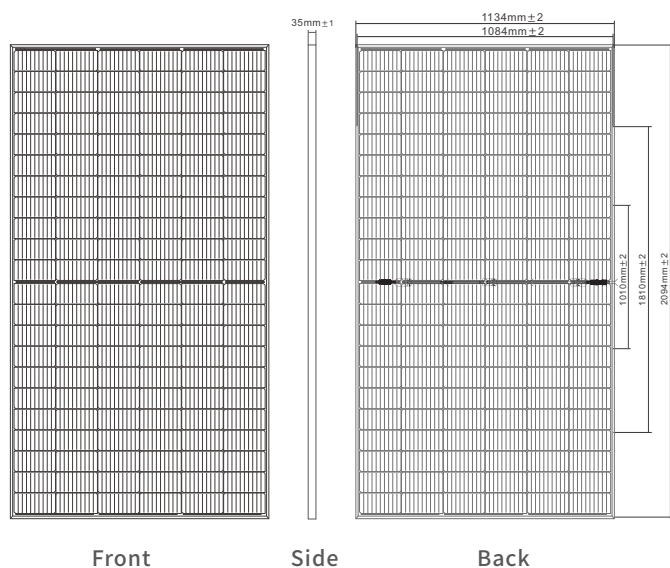


### Comprehensive Products and System Certificates

- 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	2094×1134×35mm
Weight	30.9kg
Packing	31PCS/Pallet, 682PCS/40hq
Front Glass	High Transparency Solar Glass 2.0mm
Back Glass	Heat Strengthened Glass 2.0mm
Frame	Anodized Aluminum Alloy & Custom Color Accepted
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/G132530		SF-M18/G132535		SF-M18/G132540		SF-M18/G132545	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	530	396.97	535	400.72	540	404.46	545	408.21
Maximum Power Voltage (Vmp) [V]	39.03	36.49	39.18	36.63	39.33	36.77	39.48	36.91
Maximum Power Current (Imp) [A]	13.58	10.88	13.65	10.94	13.73	11.00	13.80	11.06
Open Circuit Voltage (Voc) [V]	46.56	43.53	46.71	43.67	46.86	43.81	47.01	43.95
Short Circuit Current (Isc) [A]	14.29	11.24	14.35	11.27	14.41	11.29	14.46	11.32
Module Efficiency [%]	22.32		22.53		22.74		22.95	
Cell Type [mm]	Mono 182±1.5×91±1.5, 132 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]	583	589	594	600
Maximum Power Voltage (Vmp) [V]	39.03	39.18	39.33	39.48
Maximum Power Current (Imp) [A]	14.94	15.02	15.10	15.18
Open Circuit Voltage (Voc) [V]	46.56	46.71	46.86	47.01
Short Circuit Current (Isc) [A]	15.72	15.78	15.85	15.91
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

