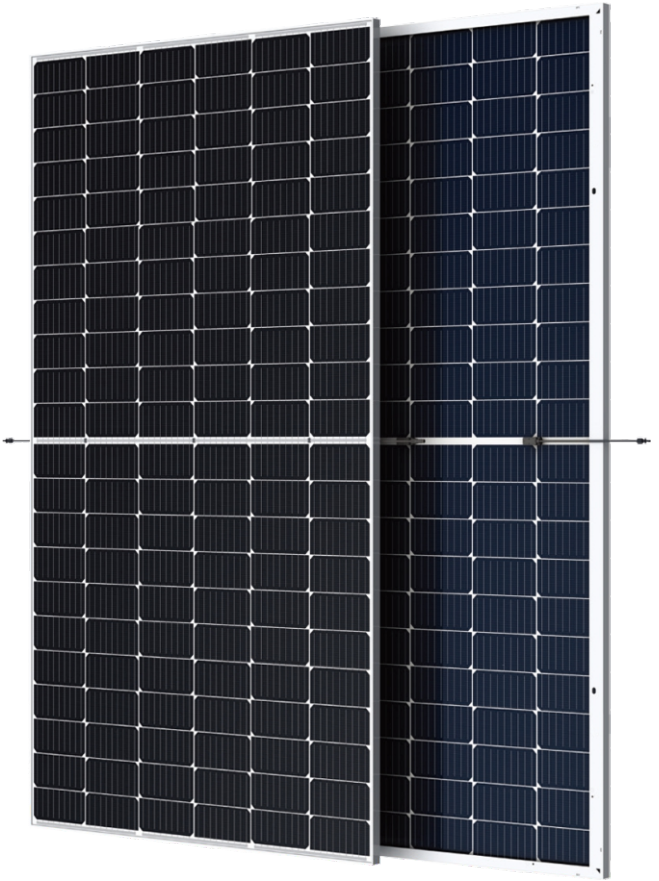


# SF-M18/G132

## 490-505W

### 182±1.5×91±1.5mm

### Cells 132



### Bifacial Double Glass

### PERC Half-Cell Module

Max Power Out:505W

Max Efficiency:21.27%

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).

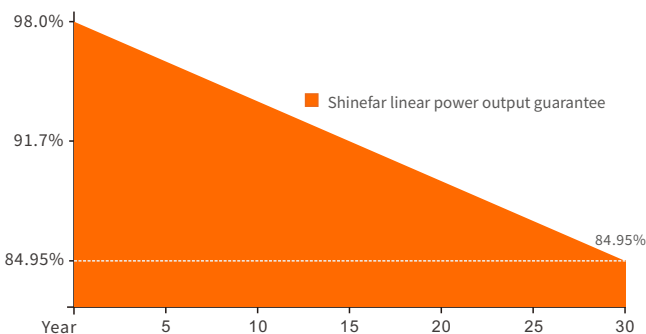


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

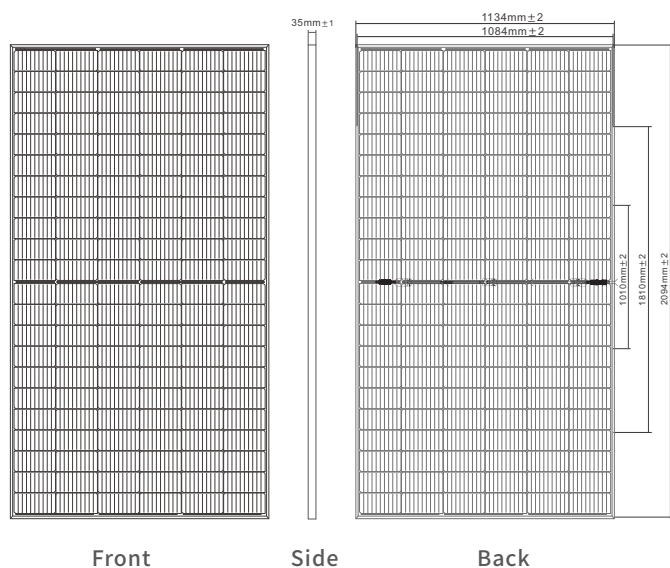


### Comprehensive Products and System Certificates

- 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	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/G132490		SF-M18/G132495		SF-M18/G132500		SF-M18/G132505	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	490	367.01	495	370.76	500	374.50	505	378.25
Maximum Power Voltage (Vmp) [V]	37.83	35.37	37.98	35.51	38.13	35.65	38.28	35.79
Maximum Power Current (Imp) [A]	12.95	10.38	13.03	10.44	13.11	10.50	13.19	10.57
Open Circuit Voltage (Voc) [V]	45.36	42.41	45.51	42.55	45.66	42.69	45.81	42.83
Short Circuit Current (Isc) [A]	13.80	11.01	13.86	11.04	13.92	11.07	13.99	11.10
Module Efficiency[%]	20.64		20.85		21.06		21.27	
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]	539	545	550	556
Maximum Power Voltage (Vmp) [V]	37.83	37.98	38.13	38.28
Maximum Power Current (Imp) [A]	14.25	14.34	14.42	14.51
Open Circuit Voltage (Voc) [V]	45.36	45.51	45.66	45.81
Short Circuit Current (Isc) [A]	15.18	15.25	15.32	15.39
Irradiance Ratio(Rear/Front)	10%			

## Temperature Ratings

Nominal Operating Cell Temperature	45 ± 2°C
Temperature Coefficient of Isc	+0.06%/°C
Temperature Coefficient of Voc	-0.30%/°C
Temperature Coefficient of Pmax	-0.39%/°C

## Curve diagram

