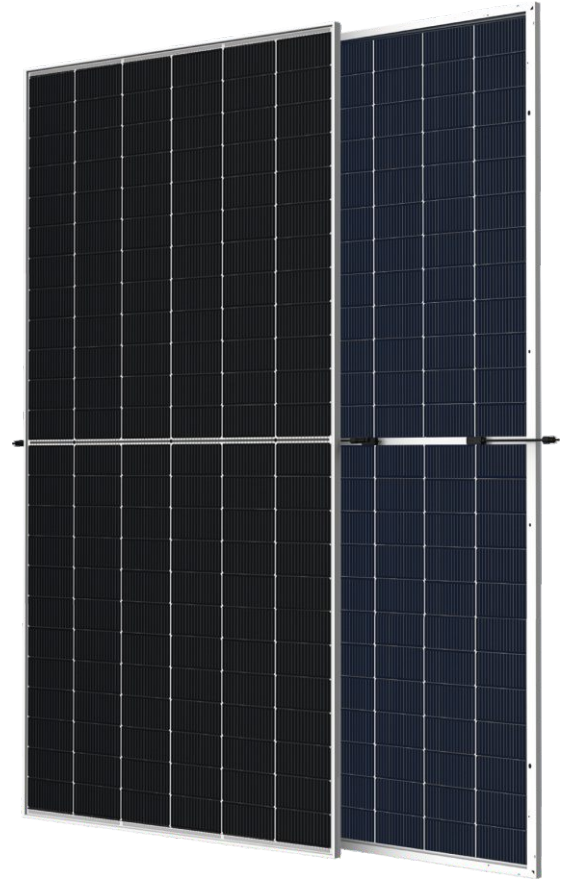


# SF-M18/G156

## 605-620W

### 182±1.5×92.875±1.5mm

### Cells 144



### Bifacial Double Glass

### N-TYPE Half-Cell Module

Max Power Out: 620W

Max Efficiency: 23.43%

Power Tolerance: 0~+5W



#### SMBB Technology

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



#### Reduced Hot Spot Loss

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



#### 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.

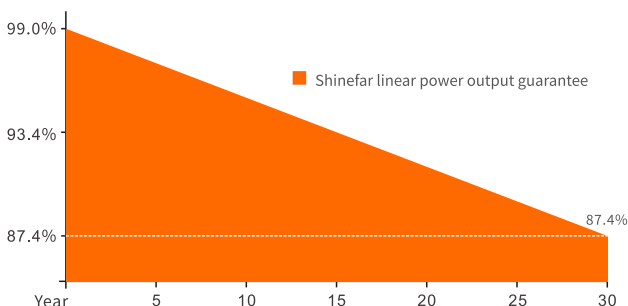


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

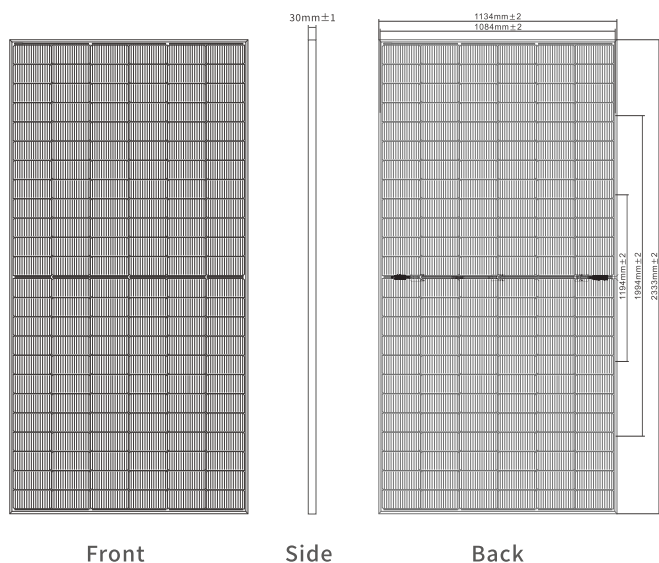


### Comprehensive Products and System Certificates

- IEC/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	2333×1134×30mm
Weight	32.5kg
Packing	37PCS/Pallet, 740PCS/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/G156605		SF-M18/G156610		SF-M18/G156615		SF-M18/G156620	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	605	453.75	610	457.50	615	461.25	620	465.00
Maximum Power Voltage (Vmp) [V]	43.94	42.18	44.11	42.35	44.28	42.52	44.45	42.68
Maximum Power Current (Imp) [A]	13.77	10.76	13.83	10.80	13.89	10.85	13.95	10.88
Open Circuit Voltage (Voc) [V]	52.60	50.50	52.80	50.69	53.00	50.88	53.23	51.11
Short Circuit Current (Isc) [A]	14.53	11.77	14.59	11.82	14.65	11.87	14.72	11.93
Module Efficiency [%]	22.87		23.06		23.25		23.43	
Cell Type [mm]	Mono 182±1.5×92.875±1.5, 144 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]	665.5	671	676.5	682
Maximum Power Voltage (Vmp) [V]	43.94	44.11	44.28	44.45
Maximum Power Current (Imp) [A]	15.15	15.21	15.28	15.34
Open Circuit Voltage (Voc) [V]	52.60	52.80	53.00	53.23
Short Circuit Current (Isc) [A]	16.11	16.18	16.26	16.32
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

