

# SF-M21/G110

## 550-565W

### 210±1.5×105±1.5mm

### Cells 110

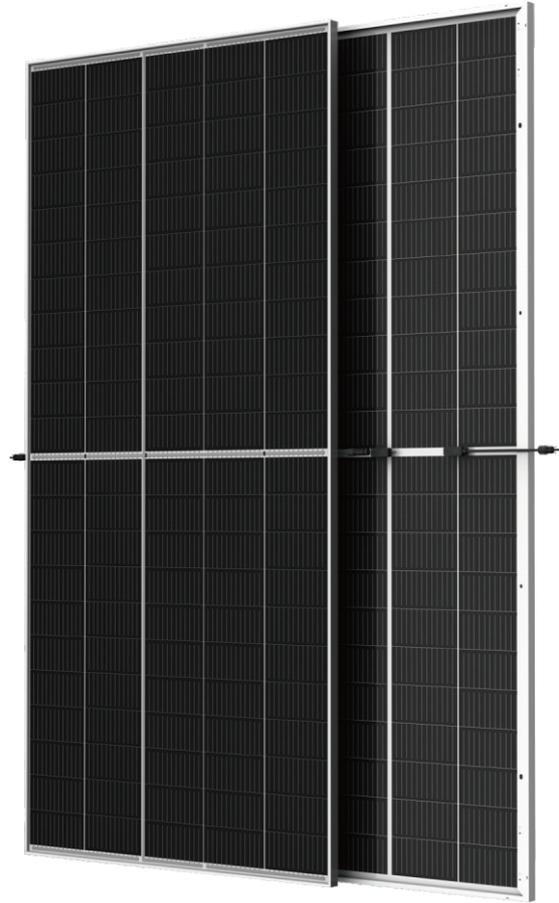
#### Bifacial Double Glass

#### PERC Half-Cell Module

Max Power Out: 565W

Max Efficiency: 21.62%

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).

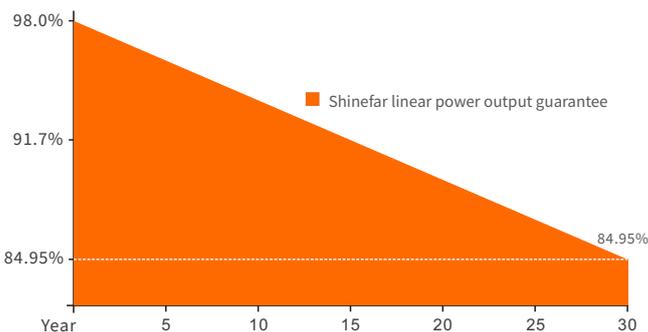


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

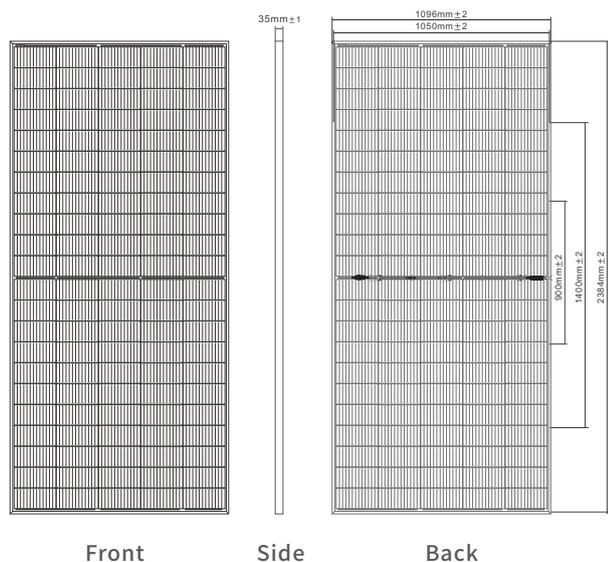


### Comprehensive Products and System Certificates

- 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	2384×1096×35mm
Weight	33.5kg
Packing	31PCS/Pallet, 640PCS/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-M21/G110550		SF-M21/G110555		SF-M21/G110560		SF-M21/G110565	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	550	416	555	420	560	423	565	427
Maximum Power Voltage (Vmp) [V]	31.60	29.40	31.80	29.60	32.00	29.80	32.20	30.00
Maximum Power Current (Imp) [A]	17.41	14.14	17.45	14.18	17.50	14.21	17.55	14.24
Open Circuit Voltage (Voc) [V]	37.90	35.70	38.10	35.90	38.30	36.10	38.50	36.30
Short Circuit Current (Isc) [A]	18.56	14.90	18.61	14.93	18.66	14.97	18.71	15.00
Module Efficiency [%]	21.05		21.24		21.43		21.62	
Cell Type [mm]	Mono 210±1.5×105±1.5, 110 Cells							
Operational Temperature [°C]	-40~+85°C							
Maximum System Voltage	1500V DC							
Max Series Fuse Rating	30A							

## Electrical Characteristics With Different Power Bin (Reference to 10% Irradiance Ratio)

Total Equivalent Power (Pmax) [Wp]	608	613	619	624
Maximum Power Voltage (Vmp) [V]	31.60	31.80	32.00	32.20
Maximum Power Current (Imp) [A]	19.23	19.29	19.34	19.39
Open Circuit Voltage (Voc) [V]	37.90	38.10	38.30	38.50
Short Circuit Current (Isc) [A]	20.51	20.57	20.62	20.67
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	-0.25%/°C
Temperature Coefficient of Pmax	-0.35%/°C

## Curve Diagram

