

# SF-M16/120

## 370-385W

### 166±1.5×83±1.5mm

### Cells 120

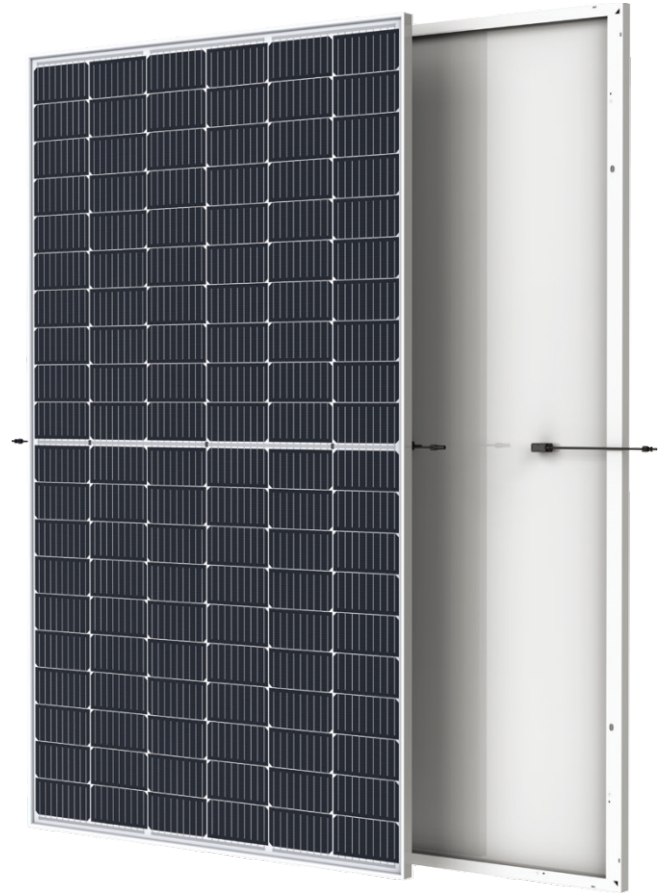
### Monocrystalline

### PERC Half-Cell Module

Max Power Out: 385W

Max Efficiency: 21.13%

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).

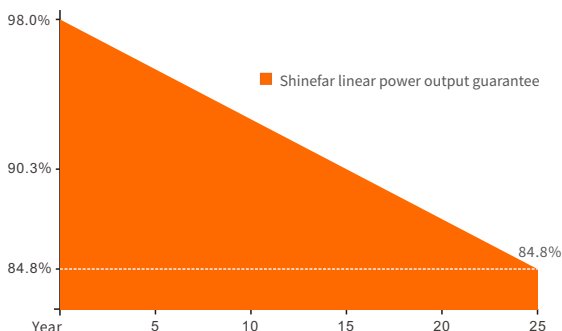


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

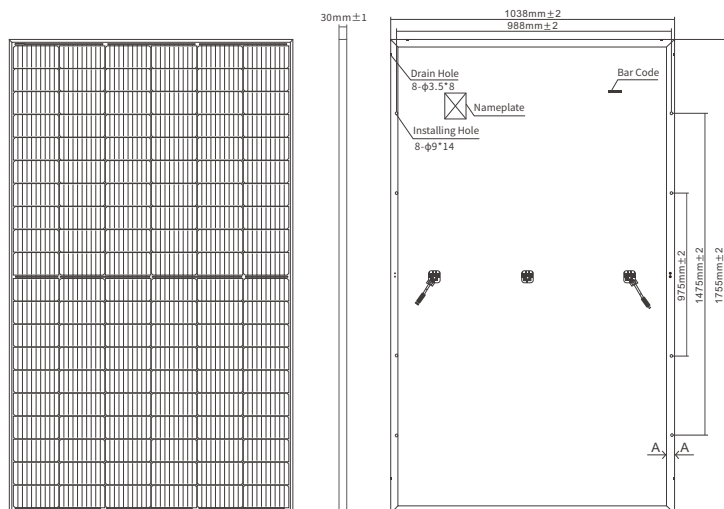


### Comprehensive Products and System Certificates

- 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



Front

Side

Back

## Structural Parameter

Dimensions of Module	1755 × 1038 × 30mm
Weight	19.4kg
Packing	37PCS/Pallet, 1053PCS/40HQ
Glass	High Transparency Solar Glass 3.2mm
Backsheet	White
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-M16/120370		SF-M16/120375		SF-M16/120380		SF-M16/120385	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	370	274.54	375	278.25	380	281.96	385	285.67
Maximum Power Voltage (Vmp) [V]	34.33	32.14	34.53	32.33	34.73	32.52	34.93	32.70
Maximum Power Current (Imp) [A]	10.78	8.54	10.86	8.61	10.94	8.67	11.02	8.74
Open Circuit Voltage (Voc) [V]	41.37	38.73	41.57	38.92	41.77	39.11	41.97	39.29
Short Circuit Current (Isc) [A]	11.31	8.96	11.38	9.02	11.45	9.07	11.52	9.13
Module Efficiency [%]	20.31		20.59		20.86		21.13	
Cell Type [mm]	Mono 166 ± 1.5 × 83 ± 1.5, 120 Cells							
Operational Temperature [°C]	-40 ~ +85°C							
Maximum System Voltage	1500V DC							
Max Series Fuse Rating	20A							

## 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

