

# SF-P15/60

## 280-295W

156.75 ± 1.5 × 156.75 ± 1.5mm

Cells 60



### Polycrystalline

### PERC Full Cell Module

Max Power Out: 295W

Max Efficiency: 18.10%

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.

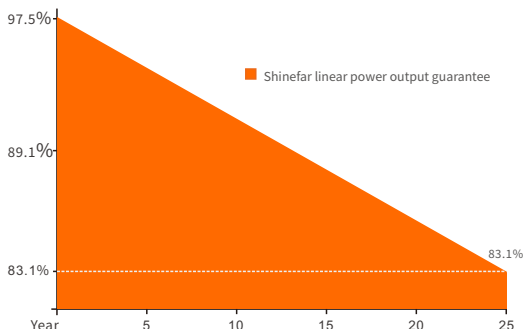


#### High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production

### Superior Warranty

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

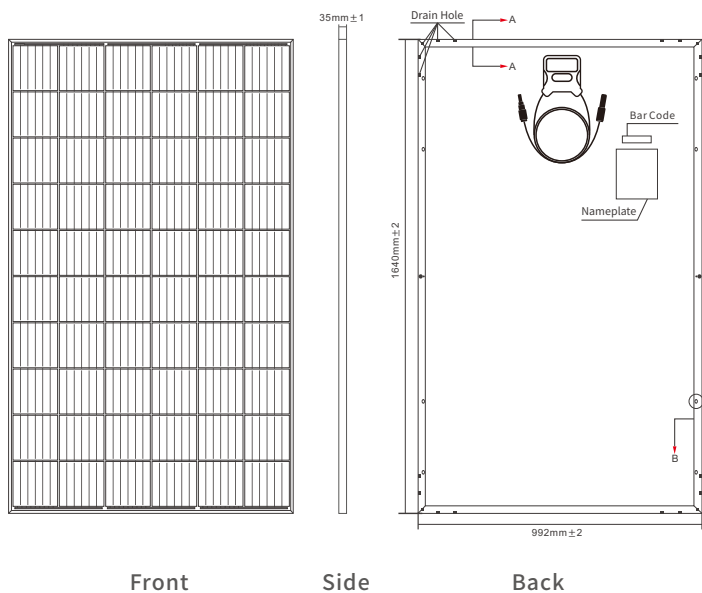


### Comprehensive Products and System Certificates

- 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



## Structural Parameter

Dimensions of Module	1640×992×35mm
Weight	17.5kg
Packing	31PCS/Pallet, 980PCS/40HQ
Glass	High Transparency Solar Glass 3.2mm
Backsheet	White
Frame	Anodized Aluminum Alloy & Custom Color Accepted
J-Box	IP67 Rated
Cable	4.0mm <sup>2</sup> , 900mm
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-P15/60280		SF-P15/60285		SF-P15/60290		SF-P15/60295	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	280	207.9	285	211.39	290	215.92	295	219.6
Maximum Power Voltage (Vmp) [V]	31.60	29.20	31.80	29.40	32.20	29.7	32.40	30.00
Maximum Power Current (Imp) [A]	8.86	7.12	8.96	7.19	9.01	7.27	9.10	7.32
Open Circuit Voltage (Voc) [V]	38.70	36.00	38.90	36.10	39.70	36.90	40.00	37.20
Short Circuit Current (Isc) [A]	9.46	7.64	9.54	7.70	9.69	7.83	9.74	7.87
Module Efficiency [%]	17.20		17.50		17.80		18.10	
Cell Type [mm]	Poly 156.75±1.5×156.75±1.5, 60 Cells							
Operational Temperature [°C]	-40~+85°C							
Maximum System Voltage	1500V DC							
Max Series Fuse Rating	15A							

## 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

