

# SF-M18/156

## 585-600W

### 182\*91mm cells 78

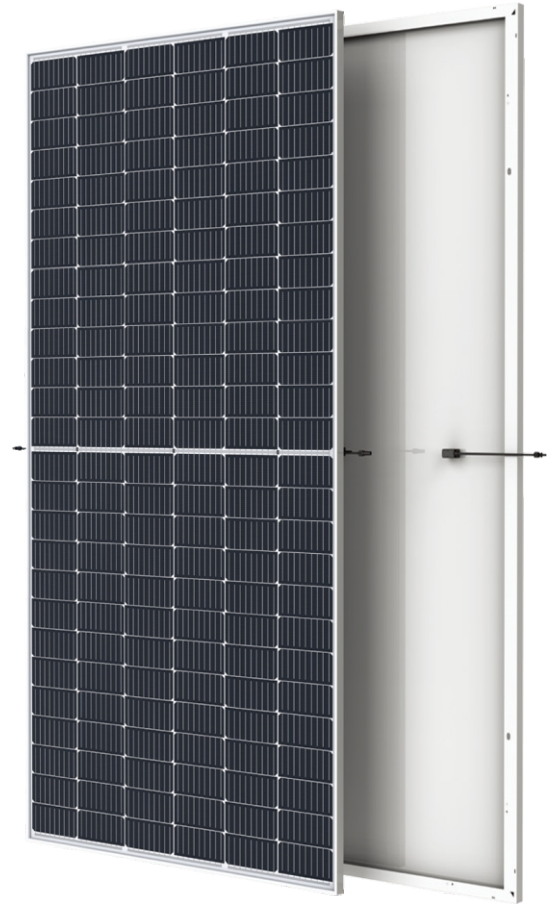
#### Monocrystalline

PERC half-cell module

Max Power out:600W

Max Efficiency:21.46%

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 (4000 Pascal) and snow load (6000 Pascal).

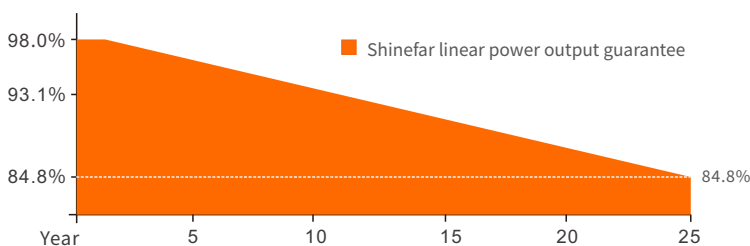


#### High energy generation, low LCOE

Low Pmax temp coefficient (-0.36%) increases energy production

### Superior Warranty

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

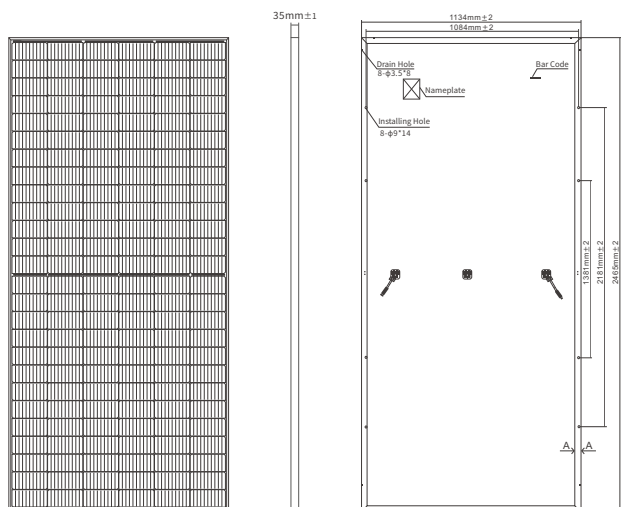


### Comprehensive Products and System Certificates

- IEC 61215, IEC 61730, IEC 61701, IEC 62716
- ISO 9001:2015 Quality management systems
- ISO 14001:2015 Environmental management systems
- ISO 45001:2018 Occupational health and safety management systems



## Engineering Drawings



Front

Side

Back

## Structural parameter

Dimensions of Module	2465x1134x35mm
Weight	27.5kg
packing	31/pallet,620/40hq
Glass	High transparency solar glass 3.2mm
Backsheet	White
Frame	Silver, anodized aluminium alloy
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-M18/156585		SF-M18/156590		SF-M18/156595		SF-M18/156600	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	585	438.17	590	441.91	595	445.66	600	449.40
Maximum Power Voltage (Vmp) [V]	44.86	42.00	45.01	42.14	45.16	42.28	45.31	42.42
Maximum Power Current (Imp) [A]	13.04	10.43	13.11	10.49	13.18	10.54	13.24	10.59
Open Circuit Voltage (Voc) [V]	53.86	49.65	54.01	49.79	54.16	49.93	54.31	50.08
Short Circuit Current (Isc) [A]	13.84	11.25	13.89	11.29	13.94	11.32	13.99	11.36
Module Efficiency[%]	20.93		21.11		21.29		21.46	
Cell Type[mm]	Mono 182x91,156 cells							
Operational Temperature[°C]	-40~+85°C							
Maximum System Voltage	1500V DC							
Max Series Fuse Rating	25A							

## 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

