

SF-M18/156

605-620W

182*91mm cells 78

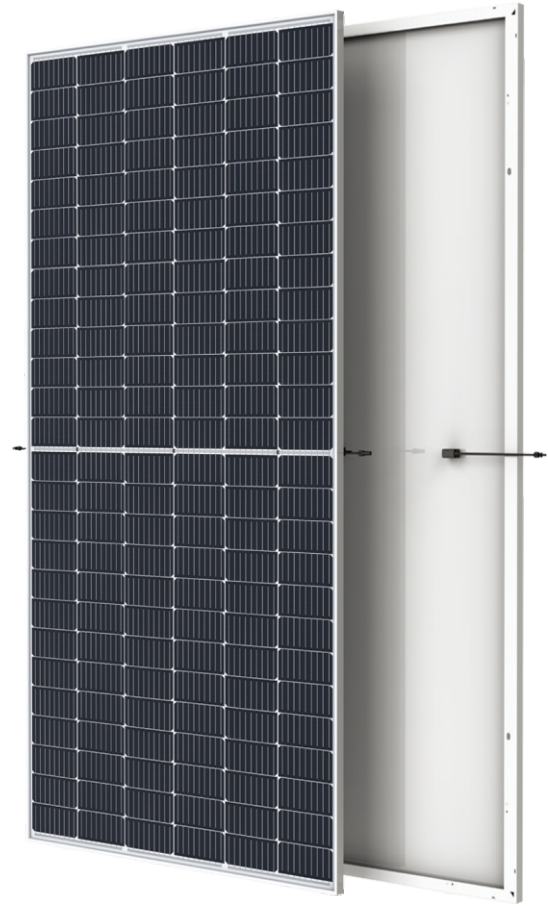
Monocrystalline

N-TYPE half-cell module

Max Power out:620W

Max Efficiency:22.18%

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.



HOT 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



Enhanced Mechanical Load

Certified to withstand:wind load (4000 Pascal) and snow load (6000 Pascal).

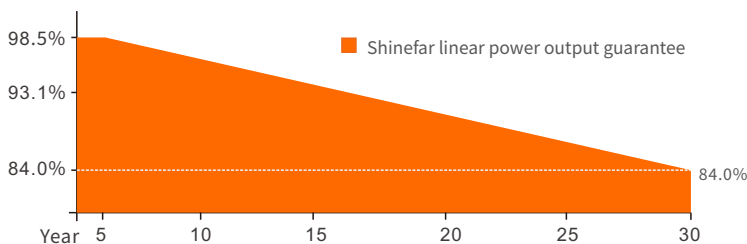


High energy generation, low LCOE

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

Superior Warranty

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

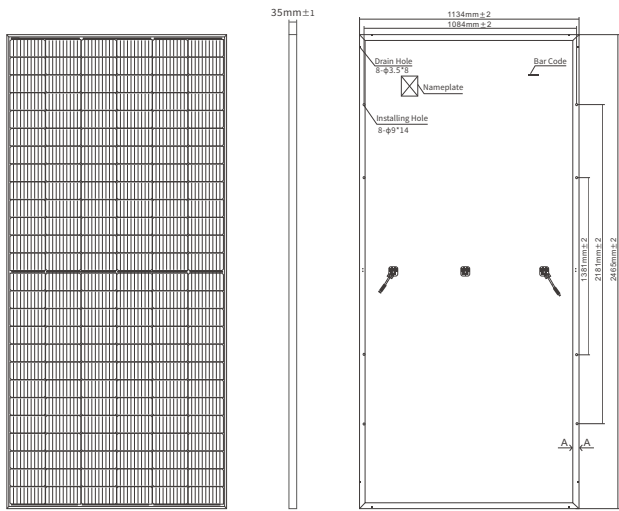


Comprehensive Products and System Certificates

- 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 ² , 300mm
Bypass Diodes	3pcs
Wind/ Snow Load	2400Pa/5400Pa
Connector	MC4 Compatible

Electrical Specification

(STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5G — NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s)

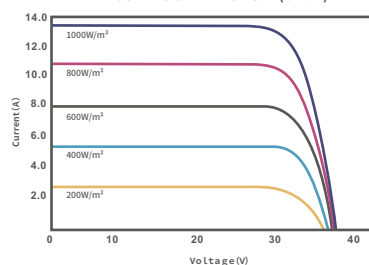
Module Type	SF-M18/156605		SF-M18/156610		SF-M18/156615		SF-M18/156620	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	605	453.15	610	456.89	615	460.64	620	464.38
Maximum Power Voltage (Vmp) [V]	45.46	42.56	45.61	42.70	45.76	42.84	45.91	42.98
Maximum Power Current (Imp) [A]	13.31	10.65	13.37	10.70	13.44	10.75	13.50	10.80
Open Circuit Voltage (Voc) [V]	54.46	50.22	54.61	50.36	54.76	50.50	54.91	50.64
Short Circuit Current (Isc) [A]	14.04	11.40	14.08	11.44	14.13	11.48	14.18	11.51
Module Efficiency[%]	21.64		21.82		22.00		22.18	
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	+0.05%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Pmax	-0.29%/°C

Curve diagram

I-V CURVES OF PV MODULE(620W)



P-V CURVES OF PV MODULE(620W)

