

SF-M21/120

600-615W

210×105mm cells 60

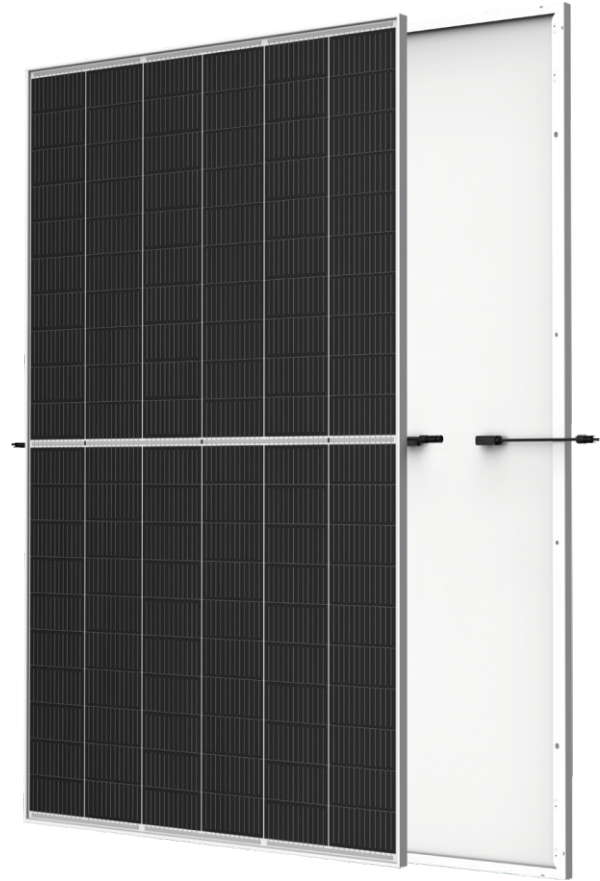
Monocrystalline

PERC Half-Cell Module

Max Power out: 615W

Max Efficiency: 21.73%

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).

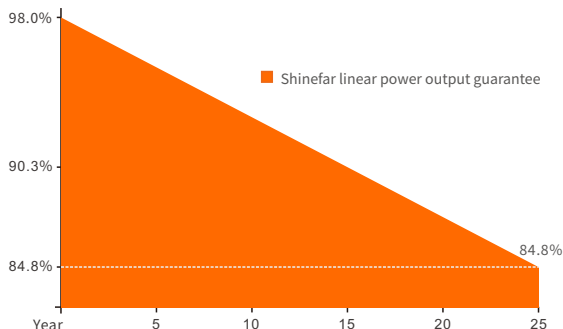


High energy generation, low LCOE

Low Pmax temp coefficient increases energy production

Superior Warranty

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

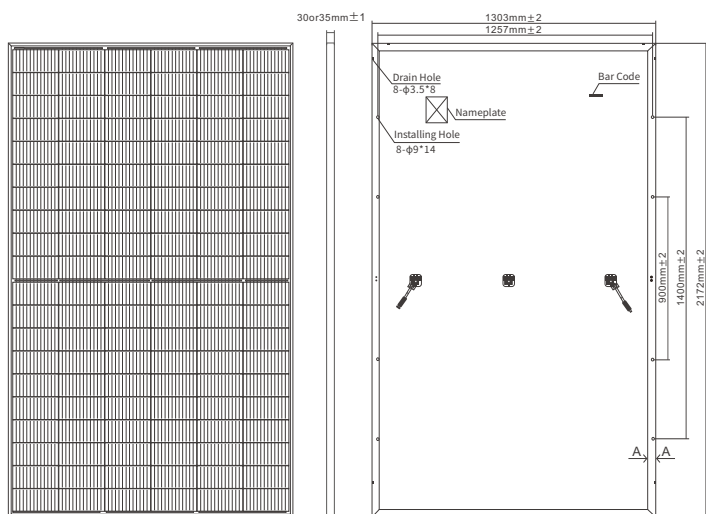


Comprehensive Products and System Certificates

- 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 CertificateBody (CB)
- UKCA:EN61730-2018
- ISO9001 & ISO14001 & ISO45001



Engineering Drawings



Front

Side

Back

Structural Parameter

Dimensions of Module 2172×1303×30 or 2172×1303×35mm

Weight 31kg

Packing 37/31/pallet, 666/558/40hq

Glass High transparency solar glass 3.2mm

Backsheet White

Frame Anodized aluminum alloy & Custom color accepted

J-Box IP68 Rated

Cable 4.0mm², 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-M21/120600		SF-M21/120605		SF-M21/120610		SF-M21/120615	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax) [W]	600	454	605	458	610	462	615	465
Maximum Power Voltage (Vmp) [V]	34.40	32.12	34.60	32.30	34.80	32.49	35.00	32.68
Maximum Power Current (Imp) [A]	17.44	14.14	17.49	14.18	17.53	14.21	17.57	14.25
Open Circuit Voltage (Voc) [V]	41.50	39.08	41.70	39.26	41.90	39.45	42.10	39.64
Short Circuit Current (Isc) [A]	18.54	14.90	18.58	14.94	18.62	14.97	18.67	15.00
Module Efficiency [%]	21.20		21.38		21.55		21.73	
Cell Type [mm]	Mono 210×105, 120cells							
Operational Temperature [°C]	-40~+85°C							
Maximum System Voltage	1500V DC							
Max Series Fuse Rating	30A							

Temperature Ratings

Nominal Operating Cell Temperature 45±2°C

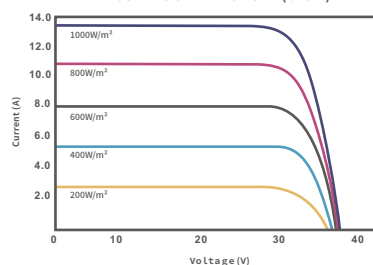
Temperature Coefficient of Isc +0.05%/°C

Temperature Coefficient of Voc -0.25%/°C

Temperature Coefficient of Pmax -0.35%/°C

Curve Diagram

I-V CURVES OF PV MODULE (615W)



P-V CURVES OF PV MODULE (615W)

