



Solarfun
林洋

SF-**TOPCon** DN72G2-2



N-Type Double-glass Bifacial Half-cell Solar Module

Maximum Power Output **595W**

Maximum Module Efficiency **23.03%**

Power Tolerance **0~+5W**



Ultra-high Power Output

- Power output up to 595W
- Additional power generation gain up to 30%



Outstanding Weather Resistance

- Dual-glass design, with a broader application range
- Suitable for use in deserts, farms and near coastal areas
- Front side can withstand a load of 5400 Pa, and the back side can withstand a load of 2400 Pa



Higher Power Generation Gain

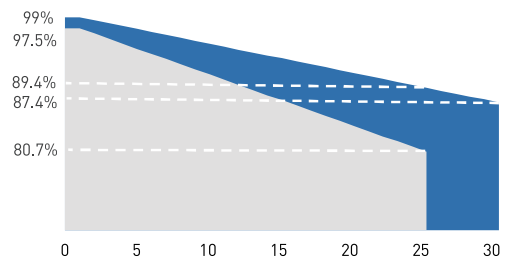
- Lower first-year degradation rate (1%) and annual degradation rate (0.4%)
- Half-cell technology reduces localized power loss
- Lower temperature coefficient and operating temperature, leading to more power generation



Safe and Reliable

- Class C fire resistance test passed
- IP68 ensures long-term reliability
- New generation TOPCon technology, with no wraparound coating, no leakage, and low hot spot risk

Industry-leading linear warranty



1%

First year degradation

0.4%

Annual degradation

15 Year Product Warranty

30 Year Linear Power Output Warranty

Note :
Certificate holder: Jiangsu Linyang Photovoltaic Technology Co., LTD.
Country of Solar Module manufacture : China



Electrical Parameters (STC)

Maximum Power	P _{max} (W)	565	570	575	580	585	590	595
Open Circuit Voltage	V _{oc} (V)	51.53	51.69	51.85	52.01	52.17	52.33	52.49
Short Circuit Current	I _{sc} (A)	13.81	13.87	13.93	13.99	14.05	14.11	14.17
Maximum Power Voltage	V _{mp} (V)	43.28	43.47	43.66	43.85	44.04	44.23	44.42
Maximum Power Current	I _{mp} (A)	13.06	13.12	13.18	13.23	13.29	13.35	13.40
Module Efficiency	(%)	21.87	22.07	22.26	22.45	22.65	22.84	23.03

* Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5, Testing Tolerance ±3%

Electrical Specification (NOCT)

Maximum Power	P _{max} (W)	425	429	432	436	440	444	447
Open Circuit Voltage	V _{oc} (V)	48.95	49.11	49.26	49.41	49.56	49.71	49.87
Short Circuit Current	I _{sc} (A)	11.15	11.20	11.25	11.30	11.35	11.39	11.44
Voltage at Maximum Power	V _{mp} (V)	40.32	40.50	40.68	40.86	41.03	41.21	41.39
Current at Maximum Power	I _{mp} (A)	10.54	10.59	10.64	10.68	10.73	10.77	10.81

Electrical Characteristics with Different Power Bin (Reference to 15% Irradiance Ratio)

Maximum Power	P _{max} (W)	650	656	661	667	673	679	684
Open Circuit Voltage	V _{oc} (V)	51.53	51.69	51.85	52.01	52.17	52.33	52.49
Short Circuit Current	I _{sc} (A)	15.87	15.94	16.01	16.08	16.15	16.21	16.29
Voltage at Maximum Power	V _{mp} (V)	43.28	43.47	43.66	43.85	44.04	44.23	44.42
Current at Maximum Power	I _{mp} (A)	15.01	15.08	15.15	15.21	15.28	15.34	15.40

* Bifaciality Ratio: 80% ±10%

Mechanical Parameters

Cell	144 Half-Cut Cells
Cell Type	Monocrystalline / N-Type, 182*182mm
Dimension	2278*1134*30mm
Weight	32kg
Connector	PV-GZX1500, NINGBO GZX / PV-LY02, Yongan Anhui / PV-DA01M2-XY, DAS SOLAR Co., Ltd
Junction Box	IP68 rated, with 3 Diodes
Cable Length	4mm ² , Wire length of 300mm (customizable)
Front Glass	2.0mm Semi-tempered glass
Back Glass	2.0mm Semi-tempered glass

Temperature Characteristics

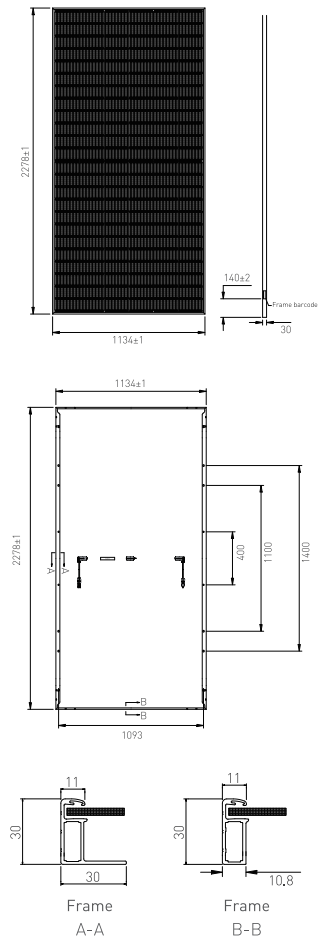
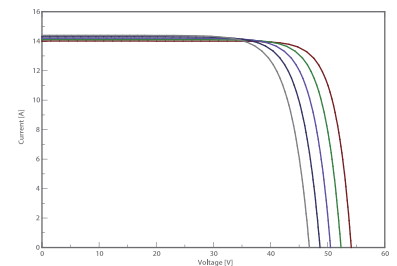
Nominal Operating Cell Temperature (NOCT)	42±2°C
Peak Power (P _{max}) Temperature Coefficient	-0.295%/°C
Open Circuit Voltage (V _{oc}) Temperature Coefficient	-0.257%/°C
Short Circuit Current (I _{sc}) Temperature Coefficient	+0.044%/°C

Limit Parameters

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Fuse Rating Current	30 A
Power Tolerance	0~+5W

Packaging Configuration

Module per box	36 pieces
Module per 40' container	720 pieces

Module Dimensions

Curve Chart
I-V Curve at Different Temperature (630W)

I-V/P-V Curve at Different Irradiation (630W)
