



TERRON

TOPCON SERIES

BIFACIAL DOUBLE GLASS

430~455Watt



French Design

- French owned company
- We apply premium quality standards required by the market



Tripple Re-inspection by Greenwire

Greenwire is a French independant quality control laboratory. They inspect each batch of solar panels three times : during production, after production and during loading. All the reports are available on demand



Safety First

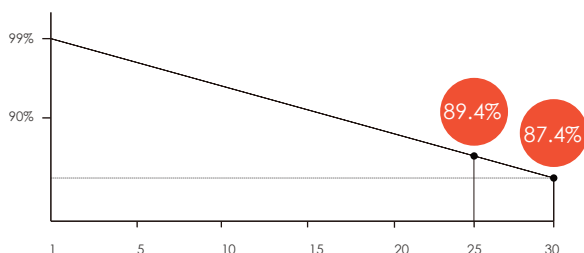
TUV, CE



High Power Generation

- MBB - Multi-BusBars technology for enhanced cell efficiency.
- Bifacial panels collect sunlight from both sides, boosting overall efficiency compared to Mono-facial

LINEAR PERFORMANCE WARRANTY



Maximum Power **455W**

Max. Efficiency **22.77%**

Power Output Tolerance **0~+5%**

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BIFACIAL MODULE

Engineering Drawing (unit : mm)

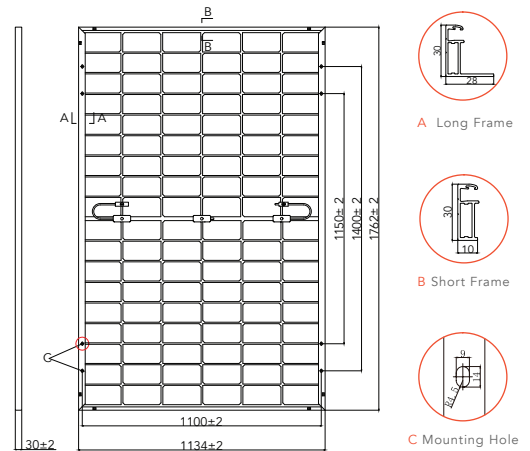
Electrical Properties

Reference Number	SFPV-BF430-NR3	SFPV-BF435-NR3	SFPV-BF440-NR3	SFPV-BF445-NR3	SFPV-BF450-NR3	SFPV-BF455-NR3
Testing Condition	STC* NMOT*	STC NMOT	STC NMOT	STC NMOT	STC NMOT	STC NMOT
Peak Power(Pmax)(W)	430 322	435 326	440 330	445 333	450 337	455 341
MPP Voltage(Vmp)(V)	32.97 31.57	33.15 31.74	33.33 31.91	33.51 32.08	33.69 32.26	33.87 32.43
MPP Current(Impp)(A)	13.04 10.20	13.12 10.27	13.20 10.33	13.28 10.39	13.36 10.45	13.43 10.51
Open Circuit Voltage(Voc)(V)	38.37 36.74	38.57 36.93	38.77 37.12	38.97 37.32	39.17 37.51	39.37 37.70
Short Circuit Current(Isc)(A)	13.86 11.19	13.93 11.25	14.00 11.30	14.07 11.36	14.14 11.42	14.21 11.47
Module Efficiency(%)	21.52	21.77	22.02	22.27	22.52	22.77

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5

The data above is for reference only and the actual data is in accordance with the practical testing Power Measurement Tolerance ±3%

*NMOT: Irradiance 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s



Electrical Properties under Different Rear Gain | SFPV-BF450

Power Gain (%)	Peak Power (Pmax) (W)	MPP Voltage (Vmp) (V)	MPP Current (Impp) (A)	Open Circuit Voltage (Voc) (V)	Short Circuit Current (Isc) (A)
10	495.00	33.69	14.69	39.17	15.55
15	517.50	33.69	15.36	39.17	16.26
20	540.00	33.69	16.03	39.17	16.96
25	562.50	33.79	16.65	39.27	17.63
30	585.00	33.79	17.31	39.27	18.33

Operating Properties

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage (V)	1500V DC (IEC)
Maximum Series Fuse Rating (A)	30
Bifaciality*	80%
Front Static Load	Snow load 5400Pa, Wind load 2400Pa

*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%

Temperature Coefficient

Temperature Coefficient of Pmax*	-0.300%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

*Temperature Coefficient of Pmax±0.03%/°C

Mechanical Properties

Number of Cells	108pcs
Module Dimension	1762mm*1134mm*30mm
Weight	24.6kg
Front / Rear Glass*	2.0mm/2.0mm Heat strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 diodes)
Cable Length	4.0mm ² , +1300mm/-1300mm (Cable length can be customized)
Packing Configuration	36pcs/Pallet ,936pcs/40 'HQ

Characteristic Curves | SFPV-BF450

