

TERRON

TOPCON SERIES

BIFACIAL SINGLE GLASS

485~510Watt



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

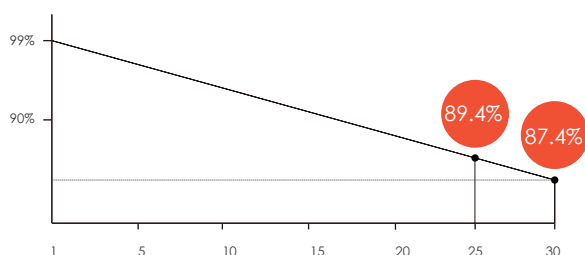
TUV, CE



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 **510W**

Max. Efficiency **23.06%**

Power Output Tolerance **0~+3%**

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BLACK FRAME TRANSPARENT GLASS

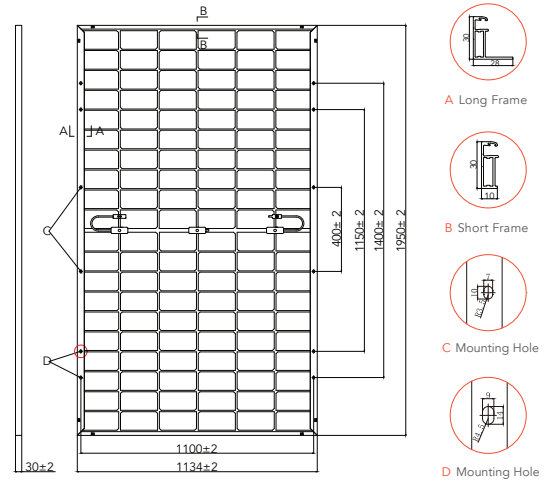
Electrical Properties

Reference Number	SFPV-BF485-NR3		SFPV-BF490-NR3		SFPV-BF495-NR3		SFPV-BF500-NR3		SFPV-BF505-NR3		SFPV-BF510-NR3	
Testing Condition	STC*	NMOT*	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power(Pmax)(W)	485	363	490	367	495	371	500	375	505	378	510	382
MPP Voltage(Vmp)(V)	36.93	35.36	37.11	35.54	37.29	35.71	37.47	35.88	37.65	36.05	37.83	36.23
MPP Current(Impp)(A)	13.13	10.27	13.20	10.33	13.27	10.38	13.34	10.44	13.41	10.49	13.48	10.54
Open Circuit Voltage(Voc)(V)	42.98	41.15	43.18	41.34	43.38	41.53	43.58	41.73	43.78	41.92	43.98	42.11
Short Circuit Current(Isc)(A)	13.94	11.26	14.00	11.30	14.06	11.35	14.12	11.40	14.18	11.45	14.24	11.50
Module Efficiency(%)	21.93		22.16		22.39		22.61		22.84		23.06	

*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



Engineering Drawing (unit: mm)

Electrical Properties Under Different Rear Gain

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	550.0	37.47	14.68	43.58	15.54
15	575.0	37.47	15.35	43.58	16.24
20	600.0	37.57	15.97	43.68	16.91
25	625.0	37.57	16.64	43.68	17.61
30	650.0	37.57	17.30	43.68	18.32

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

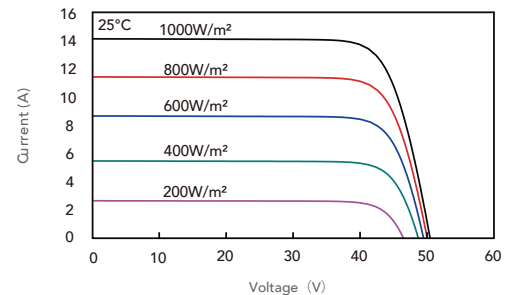
Temperature Coefficient of Pmax*	-0.300%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.045%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

*Temperature Coefficient of Pmax±0.03%/°C

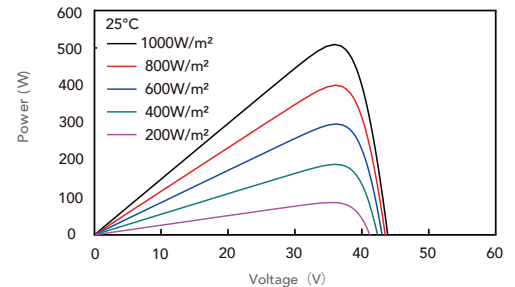
Mechanical Properties

Number of Cells	120pcs
Module Dimension	1950mm*1134mm*30mm
Weight	27.3kg
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,792pcs/40'HQ

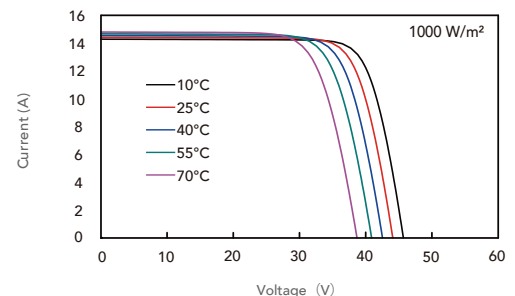
Characteristic Curves



I-V Characteristics At Different Irradiations



P-V Characteristics At Different Irradiations



I-V Characteristics At Different Temperatures



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