



GLORY TOPCon



FKF_BFW-BW / 108 cells
435 W - 450 W
Mono-Crystalline Bifacial PV Module

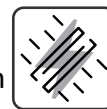
United Renewable Energy Co., Ltd. (a company from Taiwan where the sun shines) Glory TOPCon module uses URECO TOPCon monocrystalline bifacial solar cells, and URECO advanced glass(G2G) module manufacturing technology.



Key Features



Multi-Bus bar/ TLS technology
Increase the stability of outdoor power generation



Better bifaciality
High bifacial rate



PID resistance
Excellent PID resistance performance



Enhanced performance warranty
Zero light induced degradation effect/
Excellent low light performance



30-Year
Power output warranty



Superior temperature coefficient
Better performance in high temperature



Electrical Data

Model		Bifacial Gain			Bifacial Gain		
		FKF435BFW-BW	5%	10%	FKF440BFW-BW	5%	10%
Maximum Rating Power (Pmax)	[W]	435	457	479	440	462	484
Module Efficiency	[%]	21.77	22.86	23.95	22.02	23.12	24.22
Open Circuit Voltage (Voc)	[V]	39.13	39.13	39.13	39.33	39.33	39.33
Maximum Power Voltage	[V]	32.46	32.46	32.46	32.67	32.67	32.67
Short Circuit Current (Isc)	[A]	14.01	14.71	15.41	14.08	14.78	15.49
Maximum Power Current	[A]	13.40	14.07	14.74	13.47	14.14	14.82
Model		FKF445BFW-BW	5%	10%	FKF450BFW-BW	5%	10%
Maximum Rating Power (Pmax)	[W]	445	467	490	450	473	495
Module Efficiency	[%]	22.27	23.38	24.50	22.52	23.65	24.77
Open Circuit Voltage (Voc)	[V]	39.53	39.53	39.53	39.73	39.73	39.73
Maximum Power Voltage	[V]	32.87	32.87	32.87	33.06	33.06	33.06
Short Circuit Current (Isc)	[A]	14.15	14.86	15.57	14.22	14.93	15.64
Maximum Power Current	[A]	13.54	14.22	14.89	13.61	14.29	14.97

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5

*Values without tolerance are typical numbers. Measurement tolerance: ± 3%

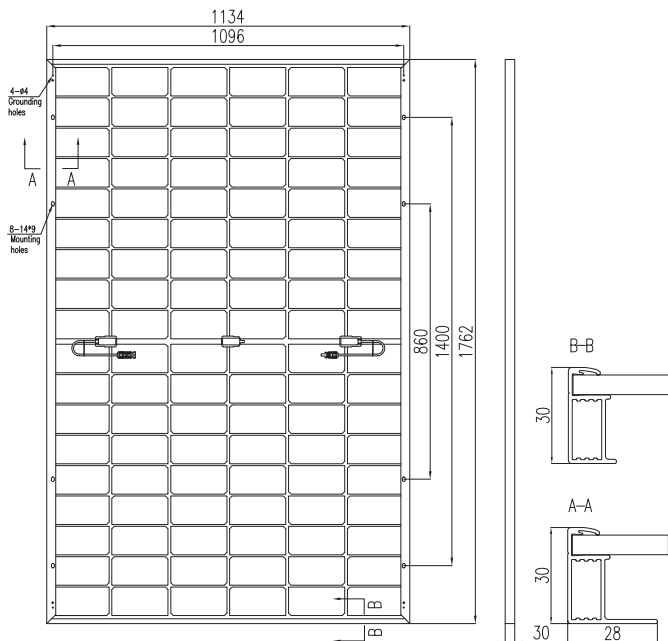
Mechanical Data

Item	Specification
Dimensions	1762 mm (L) ¹ x 1134 mm (W) ¹ x 30 mm (D) ² / 69.37" (L) ¹ x 44.65" (W) ¹ x 1.18" (D) ²
Weight	21.5 kg / 47.40 lbs
Solar Cell	N-type Mono/ 108 monocrystalline cells
Front Glass	Anti-Reflection Coating, 1.6 mm thickness
Rear Glass	Heat Strengthened glass, 1.6 mm thickness
Cell Encapsulation	POE/ EPE/ EVA
Frame	Black anodized aluminum alloy
Junction Box	IP68 (3 diodes)
Connector Type	Staubli EVO 2
Length of Cable	4mm ² , 1200mm in length
Package Configuration	36 pcs Per Pallet, 936 pcs per 40' HQ container

¹ : With assembly tolerance of ± 2 mm [± 0.08"]

² : With assembly tolerance of ± 0.8 mm [± 0.03"]

Engineering Drawing (mm)



Operating Conditions

Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1500 VDC
Series Fuse Rating	30 A
Operating Temperature	-40 to 85 °C

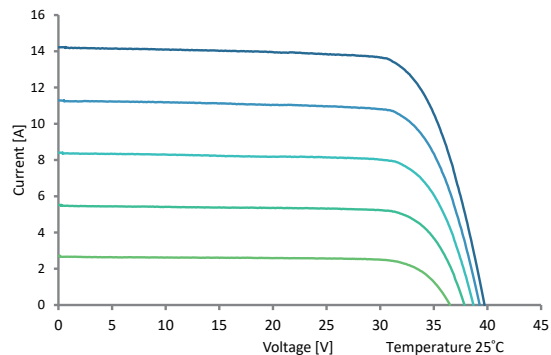
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	42°C ± 2°C
Temperature Coefficient of Isc	0.046 % / °C
Temperature Coefficient of Voc	-0.26 % / °C
Temperature Coefficient of Pmax	-0.31 % / °C

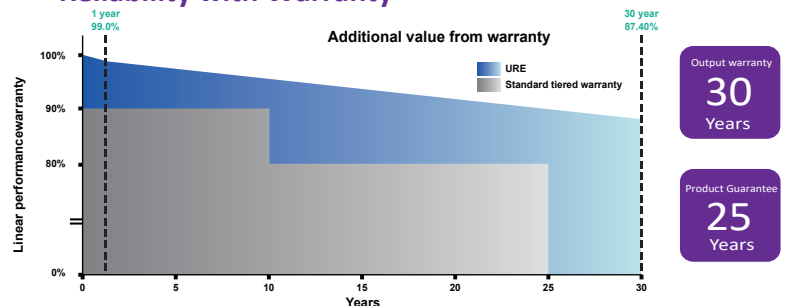
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

*Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3.5 ± 2%.

Dependence on Irradiance



Reliability with Warranty



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