

## GLORY TOPCon

FBF\_BFO / 108 cells

420 W - 440 W

Mono-Crystalline Bifacial PV Module

URECO Glory TOPCon module uses URECO own TOPCon monocrystalline bifacial solar cells, and URECO advanced double glass(G2G) module manufacturing technology.



## Key Features



SMBB cell design  
Half-cut cell technology



Better bifaciality  
Up to 85% bifaciality



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			Bifacial Gain		
		FBF420BFO	5%	10%	FBF425BFO	5%	10%	FBF430BFO	5%	10%
Maximum Rating Power (Pmax)	[W]	420	441	462	425	446	468	430	452	473
Module Efficiency	[%]	21.51	22.59	23.66	21.76	22.85	23.94	22.02	23.12	24.22
Open Circuit Voltage (Voc)	[V]	38.00	38.00	38.00	38.18	38.18	38.18	38.36	38.36	38.36
Maximum Power Voltage	[V]	31.42	31.42	31.42	31.58	31.58	31.58	31.74	31.74	31.74
Short Circuit Current (Isc)	[A]	14.16	14.87	15.58	14.26	14.97	15.69	14.36	15.08	15.80
Maximum Power Current	[A]	13.37	14.04	14.71	13.46	14.13	14.81	13.55	14.23	14.91
Model		FBF435BFO	5%	10%	FBF440BFO	5%	10%			
Maximum Rating Power (Pmax)	[W]	435	457	479	440	462	484			
Module Efficiency	[%]	22.28	23.39	24.51	22.53	23.66	24.78			
Open Circuit Voltage (Voc)	[V]	38.54	38.54	38.54	38.72	38.72	38.72			
Maximum Power Voltage	[V]	31.89	31.89	31.89	32.05	32.05	32.05			
Short Circuit Current (Isc)	[A]	14.46	15.18	15.91	14.56	15.29	16.02			
Maximum Power Current	[A]	13.64	14.32	15.00	13.73	14.42	15.10			

\*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m<sup>2</sup>, AM 1.5  
 \*Values without tolerance are typical numbers.Measurement tolerance: ±3%

### Mechanical Data

Item	Specification
Dimensions	1722mm (L) <sup>1</sup> x 1134 mm (W) <sup>1</sup> x 30 mm (D) <sup>2</sup> / 67.80" (L) <sup>1</sup> x 44.65" (W) <sup>1</sup> x 1.18" (D) <sup>2</sup>
Weight	24.2 kg / 53.35 lbs
Solar Cell	N-type Mono / 182mm x 91mm, 108 monocrystalline cells
Front Glass	2.0mm thickness
Rear Glass	2.0mm thickness
Frame	Anodized aluminum alloy
Junction Box	IP68
Connector Type	MC4 connector
Length of Cable	4mm <sup>2</sup> , 1200mm
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 " ]

### Operating Conditions

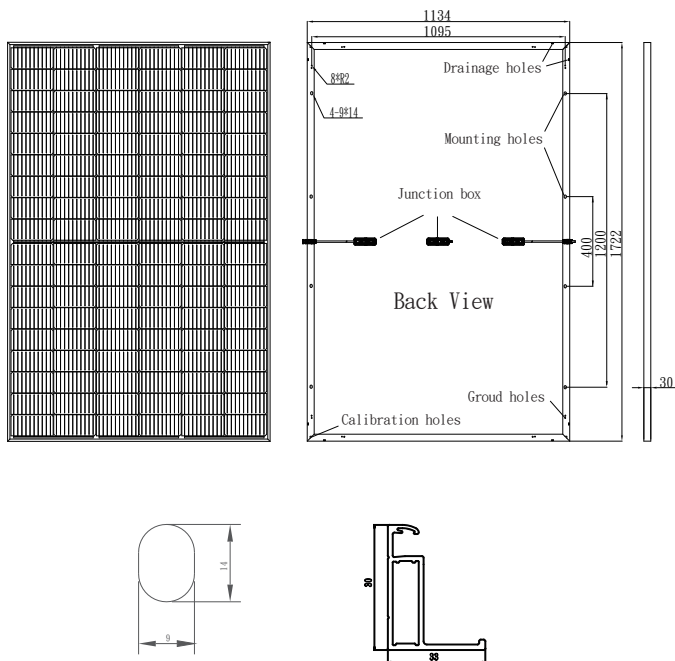
Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1500 VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C

### Temperature Characteristics

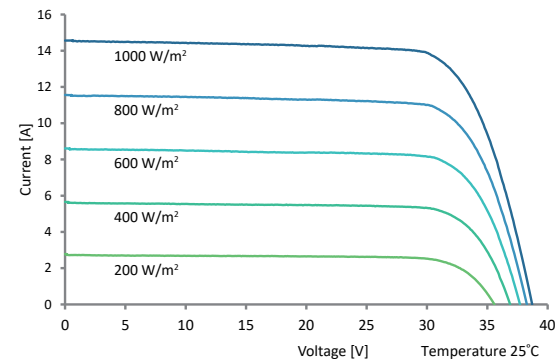
Item	Specification
Nominal Module Operating Temperature	44 °C ± 2 °C
Temperature Coefficient of Isc	0.046 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.  
 \*Reduction in efficiency from 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> at 25°C: 3.5 ± 2%.

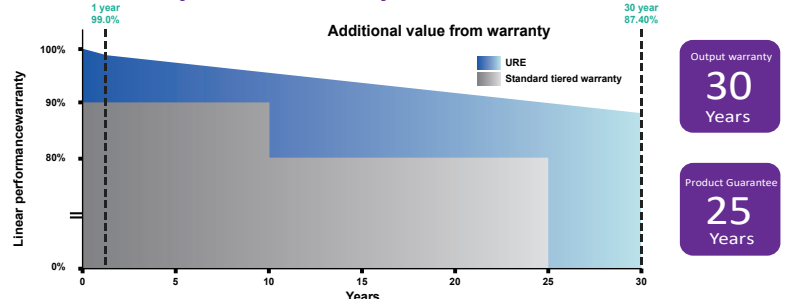
### Engineering Drawing (mm)



### Dependence on Irradiance



### Reliability with Warranty



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