

## GLORY TOPCon

FBF\_BBC / 72 cells

285 W - 305 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 double glass(G2G) module manufacturing technology.



## Key Features



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



**Light transmittance**  
55 (±) 5%



**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		
		FBF285BBC	5%	10%	FBF290BBC	5%	10%	FBF295BBC	5%	10%
Maximum Rating Power (Pmax)	[W]	285	299	314	290	305	319	295	310	325
Module Efficiency	[%]	11.03	11.58	12.13	11.23	11.79	12.35	11.42	11.99	12.56
Open Circuit Voltage (Voc)	[V]	26.18	26.18	26.18	26.37	26.37	26.37	26.56	26.56	26.56
Maximum Power Voltage	[V]	21.20	21.20	21.20	21.30	21.30	21.30	21.40	21.40	21.40
Short Circuit Current (Isc)	[A]	14.18	14.89	15.60	14.24	14.95	15.66	14.30	15.02	15.73
Maximum Power Current	[A]	13.45	14.12	14.80	13.62	14.30	14.98	13.79	14.48	15.17
Model		FBF300BBC	5%	10%	FBF305BBC	5%	10%			
Maximum Rating Power (Pmax)	[W]	300	315	330	305	320	336			
Module Efficiency	[%]	11.61	12.19	12.77	11.81	12.40	12.99			
Open Circuit Voltage (Voc)	[V]	26.75	26.75	26.75	26.94	26.94	26.94			
Maximum Power Voltage	[V]	21.50	21.50	21.50	21.60	21.60	21.60			
Short Circuit Current (Isc)	[A]	14.36	15.08	15.80	14.42	15.14	15.86			
Maximum Power Current	[A]	13.96	14.66	15.36	14.13	14.84	15.54			

\*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	2278mm (L) <sup>1</sup> x 1134 mm (W) <sup>1</sup> x 30 mm (D) <sup>2</sup> / 89.69" (L) <sup>1</sup> x 44.65" (W) <sup>1</sup> x 1.18" (D) <sup>2</sup>
Weight	32.5kg / 71.65 lbs
Solar Cell	N-type Mono/ 72 monocrystalline cells
Front Glass	AR Coating glass
Rear Glass	Heat strengthened glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Connector Type	MC4/ MC4 Compatible
Length of Cable	4mm <sup>2</sup> (IEC), Length :(+)/400mm, (-) 300mm or customized
Package Configuration	36 pcs Per Pallet, 720 pcs per 40' HQ container

<sup>1</sup> : With assembly tolerance of ± 2 mm [ ± 0.08" ]

<sup>2</sup> : 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

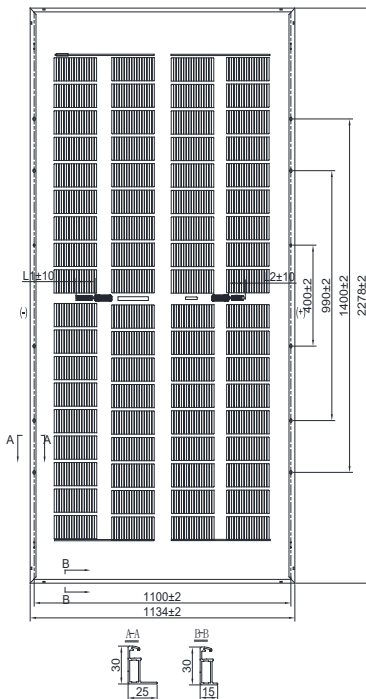
## Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	0.046 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.29 % / °C

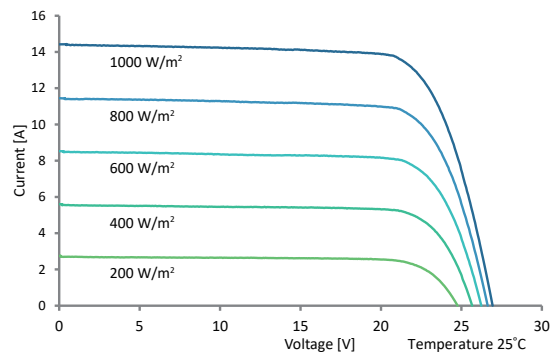
\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.

\*Reduction in efficiency from 1000W/m<sup>2</sup> to 200W/m<sup>2</sup> at 25°C: 3.5 ± 2%.

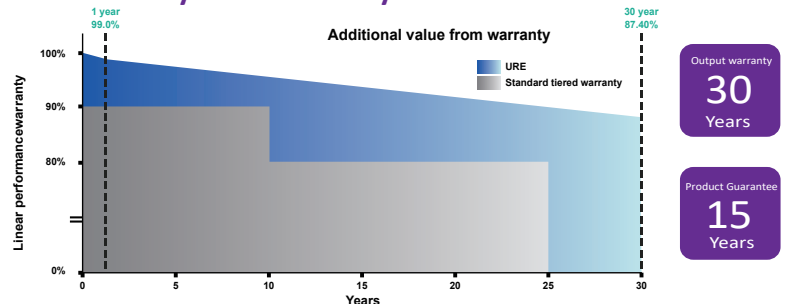
## Engineering Drawing (mm)



## Dependence on Irradiance



## Reliability with Warranty



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