

A company from Taiwan where the sun shines

URECO

United Renewable Energy Co., Ltd.

EN



GLORY TOPCon

FCF_BED / 132 cells

660W - 685 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



SMBB cell design
Better reliability



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


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Electrical Data

Model		Bifacial Gain			Bifacial Gain			Bifacial Gain		
		FCF660BED	5%	10%	FCF665BED	5%	10%	FCF670BED	5%	10%
Maximum Rating Power (Pmax)	[W]	660	693	726	665	698	732	670	704	737
Module Efficiency	[%]	21.25	22.31	23.38	21.41	22.48	23.55	21.57	22.65	23.73
Open Circuit Voltage (Voc)	[V]	46.61	46.61	46.61	46.78	46.78	46.78	47.01	47.01	47.01
Maximum Power Voltage	[V]	38.78	38.78	38.78	38.99	38.99	38.99	39.21	39.21	39.21
Short Circuit Current (Isc)	[A]	18.03	18.93	19.83	18.07	18.97	19.88	18.10	19.01	19.91
Maximum Power Current	[A]	17.02	17.87	18.72	17.06	17.91	18.77	17.09	17.94	18.80
Model		FCF675BED	5%	10%	FCF680BED	5%	10%	FCF685BED	5%	10%
Maximum Rating Power (Pmax)	[W]	675	709	743	680	714	748	685	719	754
Module Efficiency	[%]	21.73	22.82	23.90	21.89	22.98	24.08	22.05	23.15	24.26
Open Circuit Voltage (Voc)	[V]	47.22	47.22	47.22	47.43	47.43	47.43	47.64	47.64	47.64
Maximum Power Voltage	[V]	39.43	39.43	39.43	39.63	39.63	39.63	39.85	39.85	39.85
Short Circuit Current (Isc)	[A]	18.14	19.05	19.95	18.18	19.09	20.00	18.22	19.13	20.04
Maximum Power Current	[A]	17.12	17.98	18.83	17.16	18.02	18.88	17.19	18.05	18.91

*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	2384mm (L) ¹ x 1303 mm (W) ¹ x 35 mm (D) ² / 93.86" (L) ¹ x 51.30" (W) ¹ x 1.38" (D) ²
Weight	38.3 kg / 84.44 lbs
Solar Cell	N-type Mono/ 210mm x 105mm, 132 monocrystalline cells
Front Glass	2.0mm thickness
Rear Glass	2.0mm thickness
Cell Encapsulation	POE/ EPE/ EVA
Frame	Anodized aluminum alloy
Junction Box	IP68
Connector Type	MC4 Compatible
Length of Cable	4mm ² , portrait: +300mm/-300mm
Package Configuration	31 pcs Per Pallet, 558 pcs per 40' HQ container

Operating Conditions

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

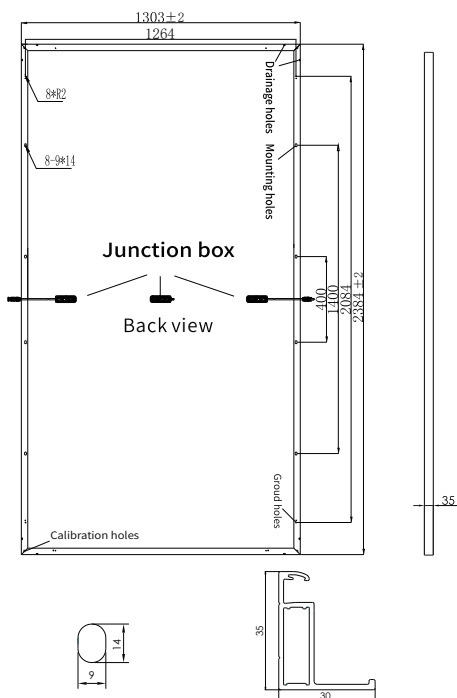
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	44 °C ± 2 °C
Temperature Coefficient of Isc	0.04 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.30 % / °C

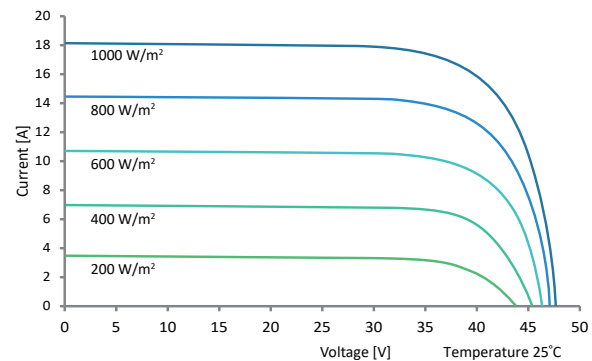
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

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

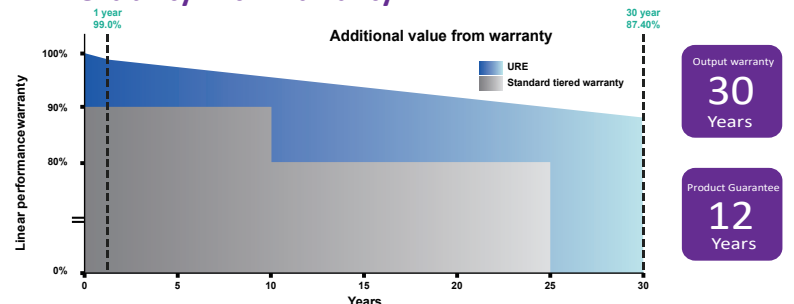
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



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