

GLORY TOPCon

FBF_B81 / 144 cells

590W

Mono-Crystalline Bifacial PV Module

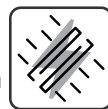
United Renewable Energy Co., Ltd. (a company from Taiwan where the sun shines) Glory TOPCon module uses URECO TOPCon monocrystalline bifacial solar cells, and URECO advanced double glass(G2G) module manufacturing technology.



Key Features



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



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



Fire resistance
Class of reaction to Type 3



Electrical Data

Model		Bifacial Gain		
		FBF590B81	5%	10%
Maximum Rating Power (Pmax)	[W]	590	620	649
Module Efficiency	[%]	22.84	23.98	25.12
Open Circuit Voltage (Voc)	[V]	52.87	52.87	52.87
Maximum Power Voltage	[V]	44.55	44.55	44.55
Short Circuit Current (Isc)	[A]	13.97	14.67	15.37
Maximum Power Current	[A]	13.25	13.91	14.58

*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	2278 mm (L) ¹ x 1134 mm (W) ¹ x 30 mm (D) ² / 89.69" (L) ¹ x 44.65" (W) ¹ x 1.18" (D) ²
Weight	31.75 kg / 69.99 lbs
Glass	Anti-Reflective (AR) coating glass
Frame	Anodized aluminum (Silver and Black)
Junction Box	IP68
Connector	Staubli MC4/ EVO2A
Cable	12AWG / 1200 mm in length (length can be customized)
Package Configuration	36 pcs Per Pallet, 576 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

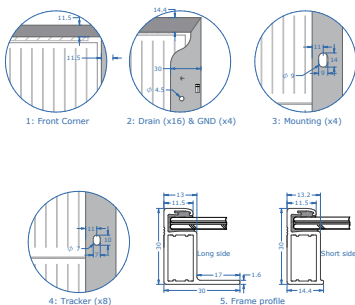
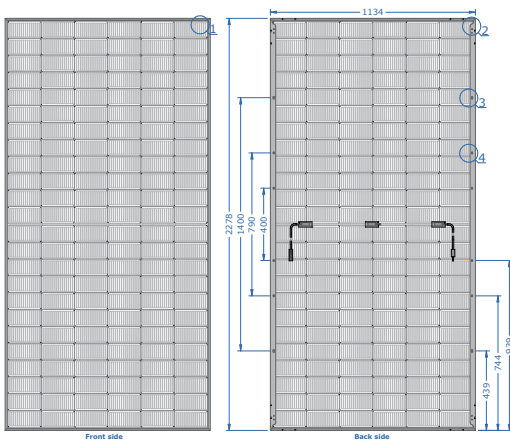
Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1500 VDC
Series Fuse Rating	30 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

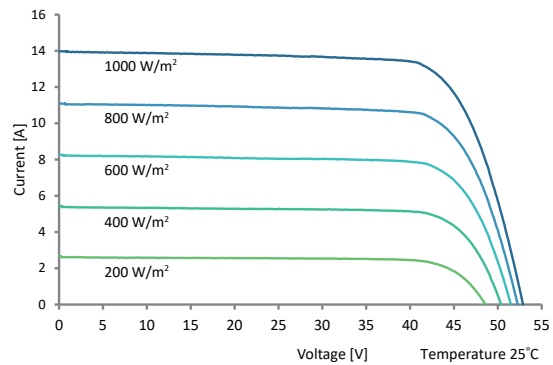
Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.05 % / °C
Temperature Coefficient of Voc	-0.25 % / °C
Temperature Coefficient of Pmax	-0.29 % / °C

*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.
 *Reduction in efficiency from 1000W/m² to 200W/m² at 25°C: 3.5 ± 2%.

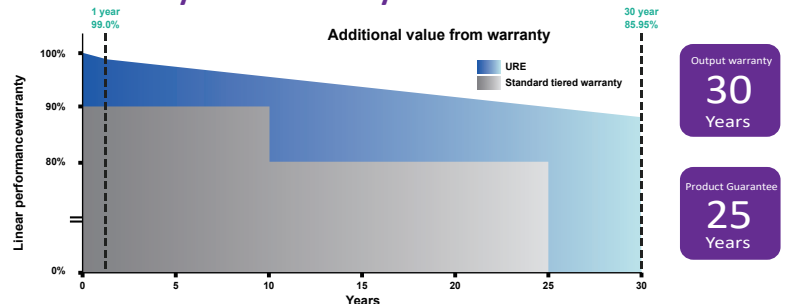
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



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