A company from Taiwan where the sun shines

URECO

United Renewable Energy Co., Ltd.

EN

GLORY TOPCon

DEF_OFA / 108 cells
425 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

Excellent low light performance
First year power degradation 1%
Annual degradation 0.4% each year

Superior temperature coefficient
Better performance in high temperature

Withstand heavy loading
Equivalent to the Beaufort wind scale 17 validation

NO Water pollution concern
PASS the water quality standard by E.P.A

High Durability
High resistance to salt mist & PID design
Pass the highest level
(IEC 61701/ IEC 60068-2-52 Severity 8)

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For more information, please visit us at ***www.urecorp.com***

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Electrical Data

Model			Bifacial Gain			Bifacial Gain			Bifacial Gain	
		DEF425OFA	5%	10%	DEF430OFA	5%	10%	DEF435OFA	5%	10%
Maximum Rating Power (Pmax)	[W]	425	446	468	430	452	473	435	457	479
Module Efficiency	[%]	21.77	22.86	23.95	22.03	23.13	24.23	22.29	23.40	24.52
Open Circuit Voltage (Voc)	[V]	38.95	38.95	38.95	39.15	39.15	39.15	39.35	39.35	39.35
Maximum Power Voltage	[V]	31.90	31.90	31.90	32.11	32.11	32.11	32.32	32.32	32.32
Short Circuit Current (Isc)	[A]	14.32	15.04	15.75	14.40	15.12	15.84	14.48	15.20	15.93
Maximum Power Current	[A]	13.34	14.01	14.67	13.40	14.07	14.74	13.46	14.13	14.81
Model		DEF440OFA	5%	10%	DEF445OFA	5%	10%	DEF450OFA	5%	10%
Maximum Rating Power (Pmax)	[W]	440	462	484	445	467	490	450	473	495
Module Efficiency	[%]	22.55	23.68	24.81	22.81	23.95	25.09	23.07	24.22	25.38
Open Circuit Voltage (Voc)	[V]	39.55	39.55	39.55	39.75	39.75	39.75	39.95	39.95	39.95
Maximum Power Voltage	[V]	32.53	32.53	32.53	32.74	32.74	32.74	32.95	32.95	32.95
Short Circuit Current (Isc)	[A]	14.56	15.29	16.02	14.64	15.37	16.10	14.72	15.46	16.19
Maximum Power Current	[A]	13.52	14.20	14.87	13.58	14.26	14.94	13.64	14.32	15.00
Positive Power Tolerance		0~3%								

*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	1722 mm (L)[1] x 1134 mm (W)[1] x 35 mm (D)[2] / 67.80 " (L)[1] x 44.65 " (W)[1] x 1.38 " (D)[2]
Weight	23.70 kg / 52.25 lbs
Solar Cell	108 half-cut monocrystalline M10 N-type TOPCon cells
Front Glass	2.0mm AR-Coating, strengthened glass
Rear Glass	2.0mm strengthened glass
Frame	Anodized aluminum alloy
Junction Box	IP68, 3diodes
Cables	4.0mm² (IEC), 12AWG (UL)
Connectors	EVO2A (1500V)
Package Configuration	30 pcs Per Pallet, 780 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

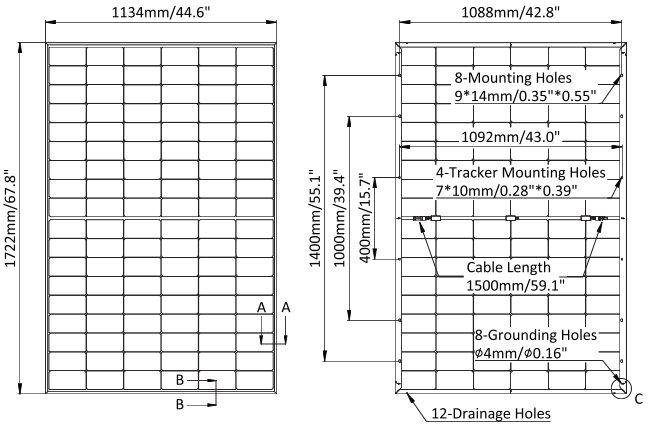
Item	Specification
Mechanical Load	7200 Pa
Maximum System Voltage	1500 VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C

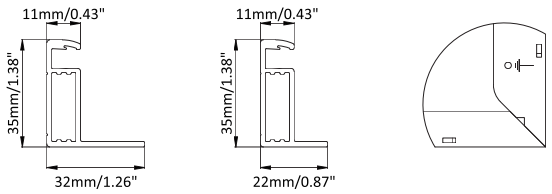
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	0.05 % / °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.

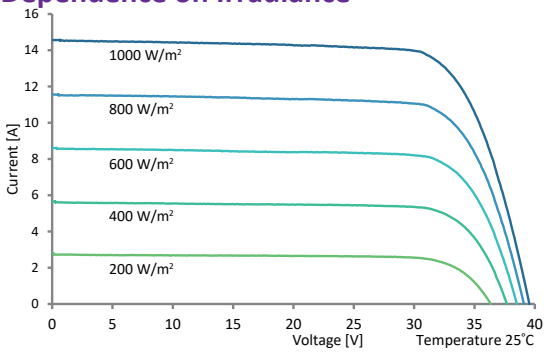
Engineering Drawing (mm)



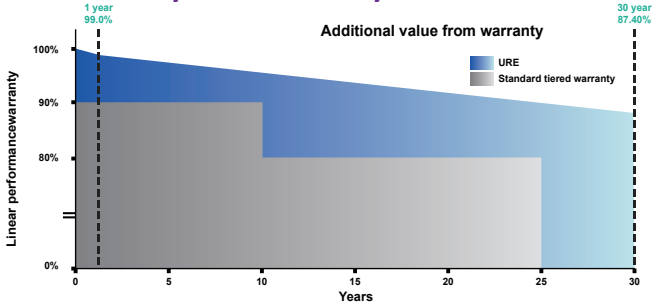


A-A Section View　B-B Section View　Detail C

Dependence on Irradiance



Reliability with Warranty



Output warranty 30 Years

Product Guarantee 15 Years

For more information, please visit us at www.urecorp.com

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