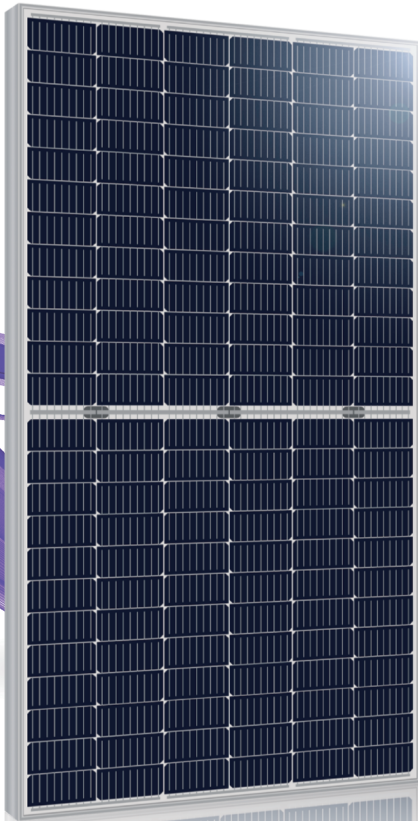




# UNITED RENEWABLE ENERGY



FAK\_C8G / 144 cells

430W - 450 W

Mono-Crystalline Bifacial PV Module

URE Peach module uses URE state-of-the-art cell cut technology on high efficiency p-PERC mono-crystalline bifacial cell, and advanced module manufacturing experiences.



## Key Features



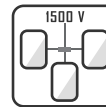
Positive power tolerance  
+0 ~ +4.99 watt



100% EL inline inspection  
Better module reliability



Withstand heavy loading  
front load 5400 Pa & rear load 2400 Pa



Design for 1500 VDC  
Reduce the system BOS effectively



Excellent low light performance  
3.5% relative eff. Reduction at low  
(200W/m<sup>2</sup>)



For more information, please visit us at [www.urecorp.com](http://www.urecorp.com)  
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# UNITED RENEWABLE ENERGY

## Electrical Data

Model		Bifacial Gain			Bifacial Gain			Bifacial Gain		
		FAK430C8G	5%	10%	FAK435C8G	5%	10%	FAK440C8G	5%	10%
Maximum Rating Power (Pmax)	[W]	430	452	473	435	457	479	440	462	484
Module Efficiency	[%]	19.34	20.31	21.27	19.56	20.54	21.52	19.79	20.78	21.77
Open Circuit Voltage (Voc)	[V]	48.70	48.70	48.70	48.90	48.90	48.90	49.10	49.10	49.10
Maximum Power Voltage	[V]	40.60	40.60	40.60	40.80	40.80	40.80	41.10	41.10	41.10
Short Circuit Current (Isc)	[A]	11.17	11.73	12.29	11.24	11.80	12.36	11.28	11.84	12.41
Maximum Power Current	[A]	10.60	11.13	11.66	10.67	11.20	11.74	10.71	11.25	11.78
Model		FAK445C8G	5%	10%	FAK450C8G	5%	10%			
Maximum Rating Power (Pmax)	[W]	445	467	490	450	473	495			
Module Efficiency	[%]	20.01	21.01	22.01	20.24	21.25	22.26			
Open Circuit Voltage (Voc)	[V]	49.30	49.30	49.30	49.50	49.50	49.50			
Maximum Power Voltage	[V]	41.40	41.40	41.40	41.70	41.70	41.70			
Short Circuit Current (Isc)	[A]	11.32	11.89	12.45	11.36	11.93	12.50			
Maximum Power Current	[A]	10.75	11.29	11.83	10.80	11.34	11.88			

\*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	2122 mm (L) <sup>1</sup> x 1048 mm (W) <sup>1</sup> x 35 mm (D) <sup>2</sup> / 83.54" (L) <sup>1</sup> x 41.26" (W) <sup>1</sup> x 1.38" (D) <sup>2</sup>
Weight	24.5kg / 54.01 lbs
Solar Cell	12x12 pieces bifacial monocrystalline solar cells series strings
Back Sheet	Transparent mesh backsheets
Front Glass	High transparency, Antireflection coated, Semi-toughened safety glass, 3.2mm thickness
Fire Performance Class	Class C/ Type 1
Junction Box	IP <sub>≥</sub> 67, 3 diodes
Cable & Connector	Portrait : 1200 mm (cable length can be customized), Staubi Brand Connector
Package Configuration	31 pcs Per Pallet, 682 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	1500V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

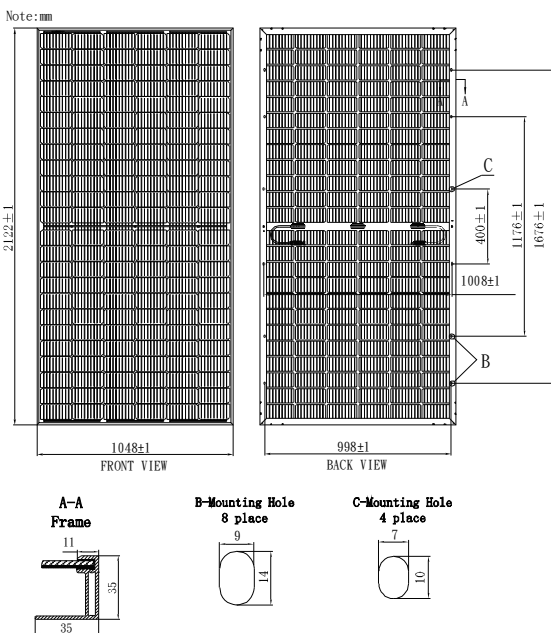
## Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.0449 % / °C
Temperature Coefficient of Voc	-0.26 % / °C
Temperature Coefficient of Pmax	-0.367 % / °C

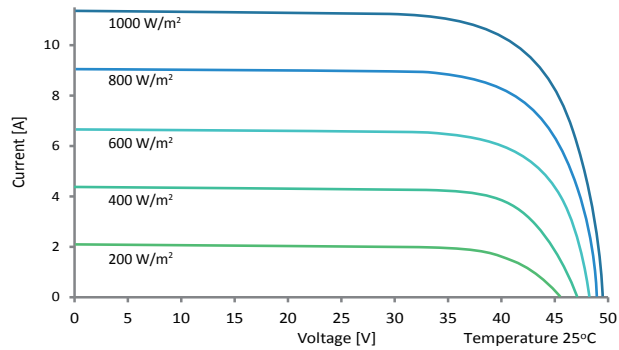
\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.

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

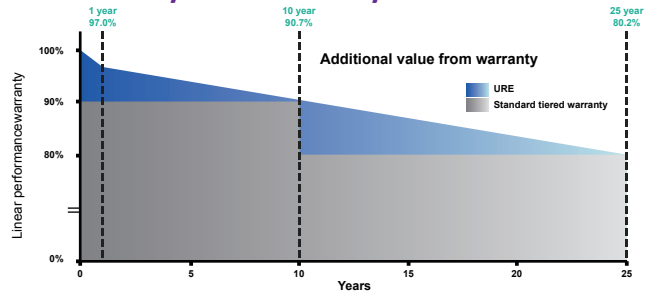
## Engineering Drawing (mm)



## Dependence on Irradiance



## Reliability with Warranty



Output warranty  
**25**  
Years

Product Guarantee  
**25**  
Years

For more information, please visit us at [www.urecorp.com](http://www.urecorp.com)

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