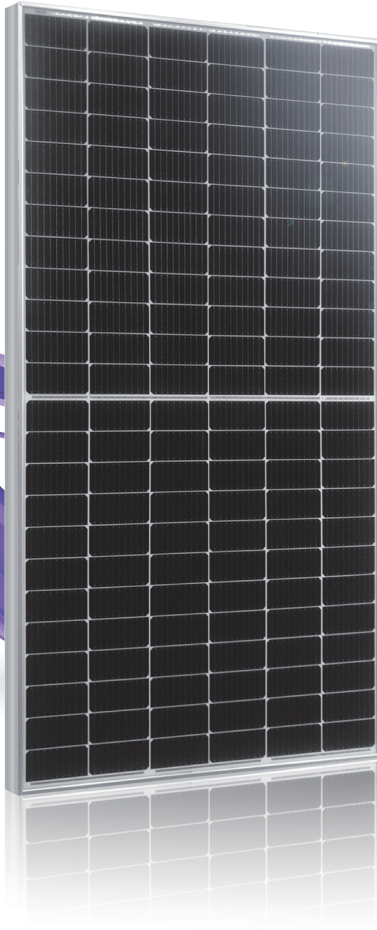




FAK_E8C / 144 cells
430-450W
Mono-Crystalline PV Module

URE Peach module uses URE state-of-the-art cell cutting technology, and advanced module manufacturing experiences.



Key Features



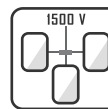
Positive power tolerance
+0 ~ +4.99 watt



100% EL inline inspection
Better module reliability



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

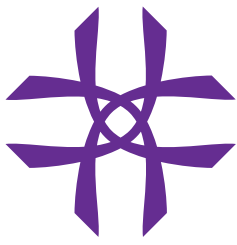


Design for 1500 VDC
Reduce the system BOS effectively



Excellent low light performance
3.5% relative eff. Reduction at low-irradiance (200W/m²)





URE

United Renewable Energy Co., Ltd.

Electrical Data

Model - STC		FAK430E8C	FAK435E8C	FAK440E8C	FAK445E8C	FAK450E8C
Maximum Rating Power (Pmax)	[W]	430	435	440	445	450
Module Efficiency	[%]	19.33	19.55	19.78	20.00	20.22
Open Circuit Voltage (Voc)	[V]	49.40	49.60	49.80	49.90	50.00
Maximum Power Voltage	[V]	40.50	40.70	40.90	41.00	41.10
Short Circuit Current (Isc)	[A]	11.46	11.53	11.60	11.72	11.83
Maximum Power Current	[A]	10.63	10.70	10.77	10.86	10.96

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5

*Values without tolerance are typical numbers.Measurement tolerance:±3%

*Assembly:CN

Mechanical Data

Item	Specification
Dimensions	2115 mm (L) ¹ x 1052 mm (W) ¹ x 35 mm (D) ² / 83.27" (L) ¹ x 41.41" (W) ¹ x 1.38" (D) ²
Weight	24.5 kg / 54.01 lbs
Solar Cell	144 half-cut monocrystalline 6" silicon cells
Front Glass	High transmission tempered glass
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Cover	Composite film, white
Frame	Anodized Aluminum Alloy
Junction Box	HT003, IP68
Connector type	PVC002, MC4 Compatible
Packaging Configuration	30 pcs Per Pallet, 660 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 (Certified by TUV)
Maximum System Voltage	TUV 1500 VDC
Series Fuse Rating	15 A
Operating Temperature	-40 to 85 °C

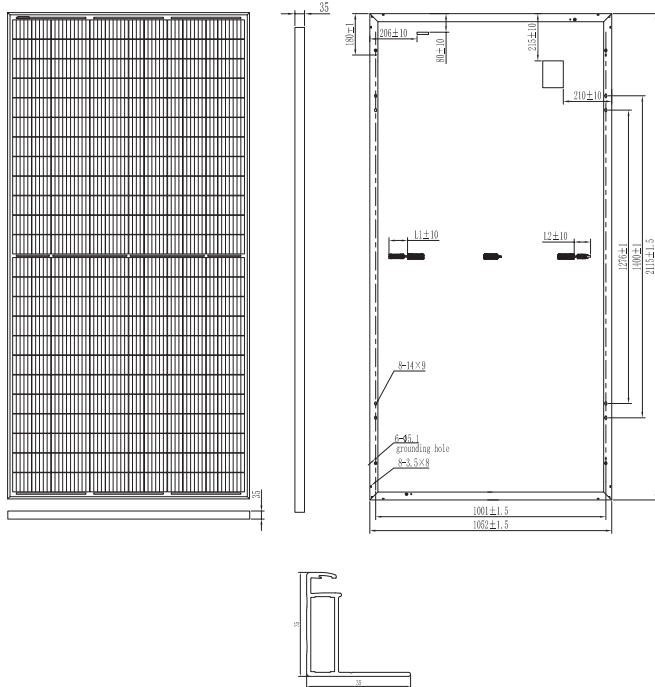
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.049 % / °C
Temperature Coefficient of Voc	-0.29 % / °C
Temperature Coefficient of Pmax	-0.39 % / °C

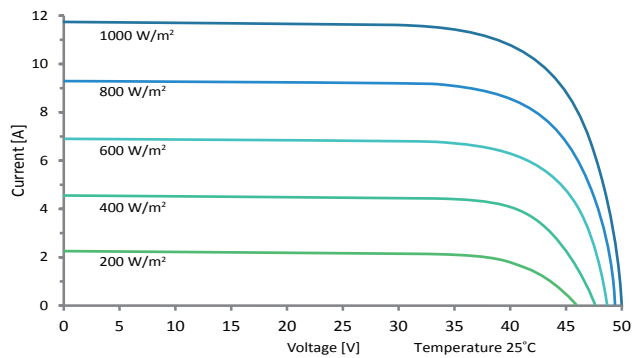
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

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

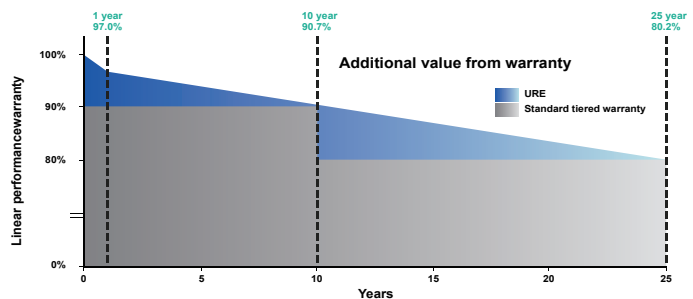
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



Output warranty
25
Years

Product Guarantee
12
Years

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

United Renewable Energy Co., Ltd.

Assemble in China

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