



FAK_E8B / 144 cells
435W-455W
Mono-Crystalline PV Module

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



Key Features



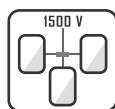
Positive power tolerance
+0 ~ +5 watt



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)



Electrical Data

Model - STC		FAK435E8B	FAK440E8B	FAK445E8B	FAK450E8B	FAK455E8B
Maximum Rating Power (Pmax)	[W]	435	440	445	450	455
Module Efficiency	[%]	20.01	20.24	20.47	20.70	20.93
Open Circuit Voltage (Voc)	[V]	48.88	49.08	49.28	49.48	49.68
Maximum Power Voltage	[V]	40.34	40.54	40.74	40.94	41.14
Short Circuit Current (Isc)	[A]	11.32	11.39	11.46	11.53	11.59
Maximum Power Current	[A]	10.79	10.86	10.93	11.00	11.07

*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	2094mm (L) ¹ x 1038 mm (W) ¹ x 35 mm (D) ² / 82.44" (L) ¹ x 40.87" (W) ¹ x 1.38" (D) ²
Weight	24.0 kg / 52.91 lbs
Solar Cell	Mono/166mm x 83mm, 144 pcs
Front Glass	High transmittance, reinforced glass, 3.2mm thickness
Junction Box	IP68
Connectors	MC4 Compatible
Cable	4mm ² , photovoltaic special cable, length: 1.2M
Frame	Anodized aluminum alloy
Package Configuration	31+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	1500 VDC
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

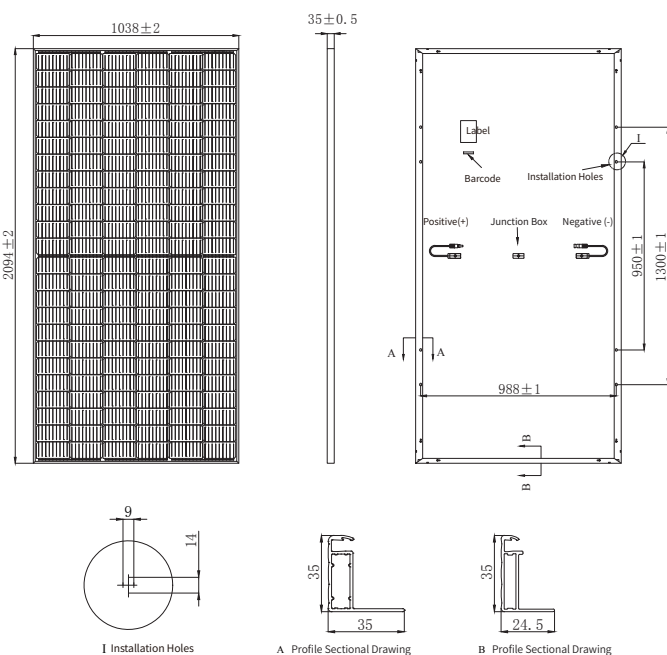
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	41°C ± 3°C
Temperature Coefficient of Isc	0.048 % / °C
Temperature Coefficient of Voc	-0.270 % / °C
Temperature Coefficient of Pmax	-0.350 % / °C

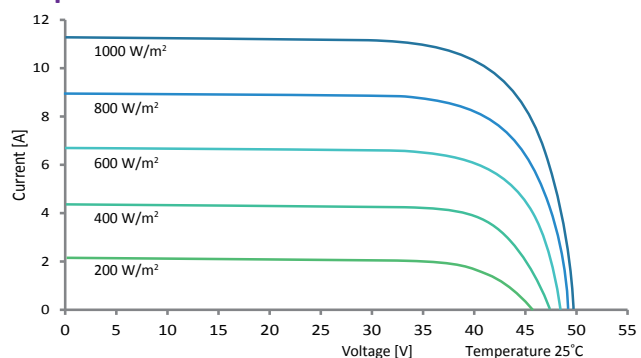
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

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

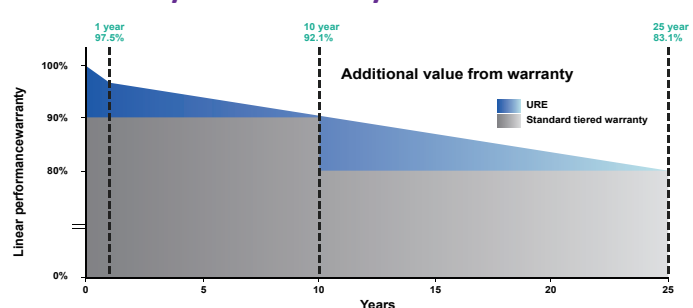
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



Output warranty
25
Years

Product Guarantee
12
Years

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