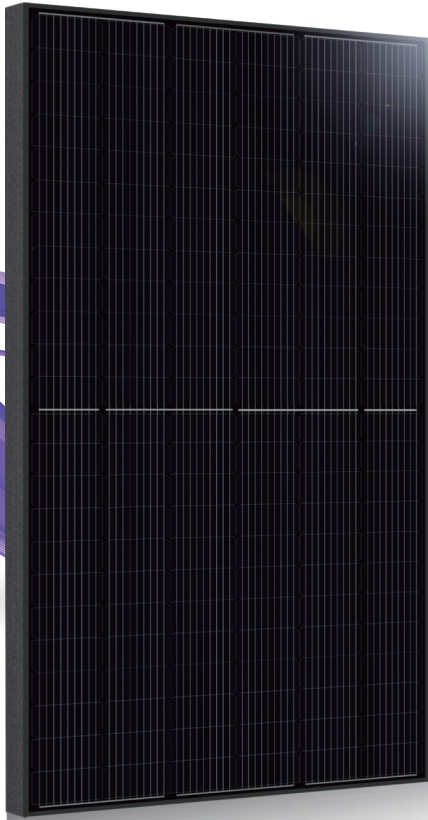




FAM\_E8G-BB / 144 cells  
425W - 445 W  
Mono-Crystalline PV Module

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



## Key Features



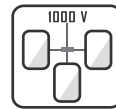
Positive power tolerance  
+0 ~ +5 watt



100% EL inline inspection  
Better module reliability



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



Design for 1000 VDC  
Reduce the system BOS effectively



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



### Electrical Data

| Model - STC                 |     | FAM425E8G-BB | FAM430E8G-BB | FAM435E8G-BB | FAM440E8G-BB | FAM445E8G-BB |
|-----------------------------|-----|--------------|--------------|--------------|--------------|--------------|
| Maximum Rating Power (Pmax) | [W] | 425          | 430          | 435          | 440          | 445          |
| Module Efficiency           | [%] | 19.24        | 19.46        | 19.69        | 19.92        | 20.14        |
| Open Circuit Voltage (Voc)  | [V] | 49.00        | 49.20        | 49.40        | 49.60        | 49.80        |
| Maximum Power Voltage       | [V] | 40.40        | 40.60        | 40.80        | 41.00        | 41.20        |
| Short Circuit Current (Isc) | [A] | 11.11        | 11.19        | 11.26        | 11.34        | 11.42        |
| Maximum Power Current       | [A] | 10.52        | 10.60        | 10.67        | 10.74        | 10.81        |

\*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            | 2108 mm (L) <sup>1</sup> x 1048 mm (W) <sup>1</sup> x 35 mm (D) <sup>2</sup> /<br>82.99" (L) <sup>1</sup> x 41.26" (W) <sup>1</sup> x 1.38" (D) <sup>2</sup> |
| Weight                | 24.4 kg / 53.79 lbs  |
| Solar Cell            | 12x12 pieces monocrystalline solar cells series strings  |
| Front Glass           | White toughened safety glass, 3.2mm thickness  |
| Cell Encapsulation    | EVA (Ethylene-Viny-Acetate)  |
| Frame                 | Black anodized aluminum profile  |
| Junction Box          | IP≥ 68, 3 diodes   |
| Cable & Connector     | Potrait : 500 mm (cable length can be customized), 1 x 4 mm <sup>2</sup><br>compatible with MC4  |
| Package Configuration | 31 pcs Per Pallet, 682 pcs per 40' HQ container  |

<sup>1</sup> : With assembly tolerance of ± 2 mm [ ± 0.08" ]  
<sup>2</sup> : With assembly tolerance of ± 0.8 mm [ ± 0.03" ]

### Operating Conditions

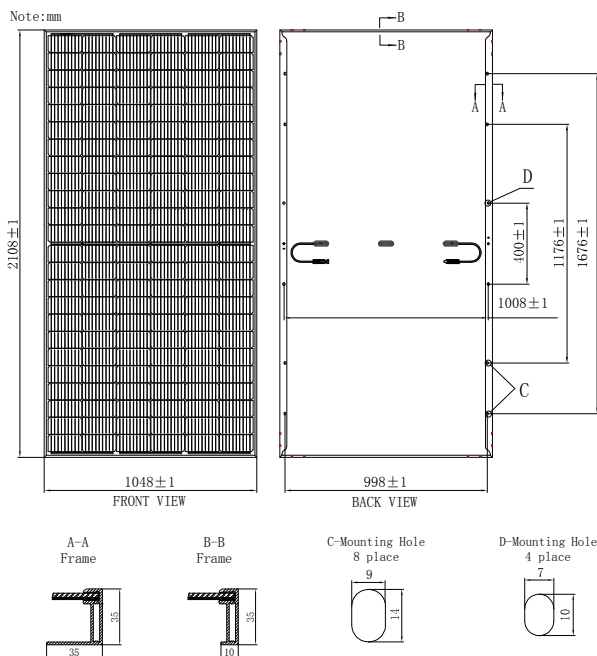
| Item                   | Specification |
|------------------------|---------------|
| Mechanical Load        | 5400 Pa       |
| Maximum System Voltage | 1000V         |
| Series Fuse Rating     | 20 A          |
| Operating Temperature  | -40 to 85 °C  |

### Temperature Characteristics

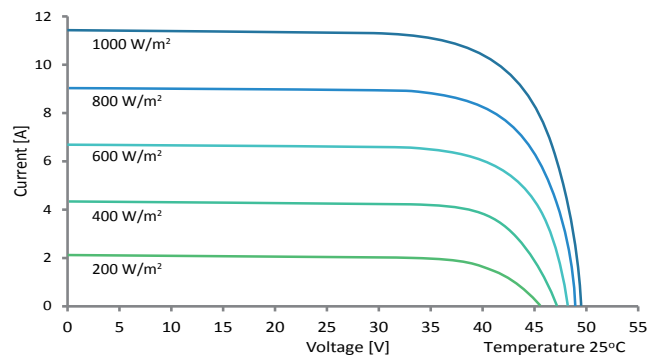
| Item                                 | Specification |
|--------------------------------------|---------------|
| Nominal Module Operating Temperature | 45°C ± 2°C    |
| Temperature Coefficient of Isc       | 0.048 % / °C  |
| Temperature Coefficient of Voc       | -0.27 % / °C  |
| Temperature Coefficient of Pmax      | -0.35 % / °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%.

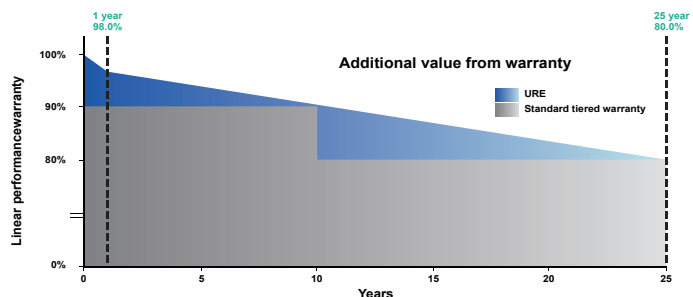
### Engineering Drawing (mm)



### Dependence on Irradiance



### Reliability with Warranty



Output warranty  
**25**  
 Years

Product Guarantee  
**12**  
 Years

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