



URECO

United Renewable Energy Co., Ltd.

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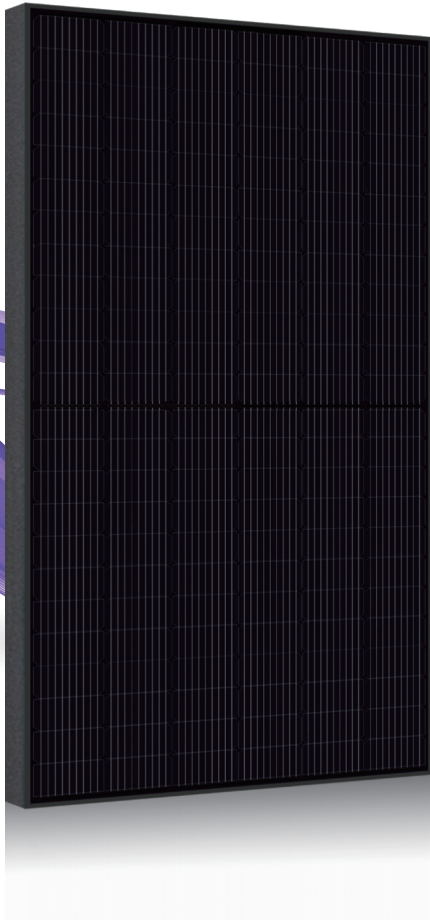


FAM_E8G-BB / 144 cells

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



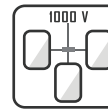
Positive power tolerance
+0 ~ +5 watt



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/m²)





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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/m², AM 1.5

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

Mechanical Data

Item	Specification
Dimensions	2108 mm (L) ¹ x 1048 mm (W) ¹ x 35 mm (D) ² / 82.99" (L) ¹ x 41.26" (W) ¹ x 1.38" (D) ²
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-Vinyl-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 ² compatible with MC4
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	1000V
Series Fuse Rating	20 A
Operating Temperature	-40 to 85 °C

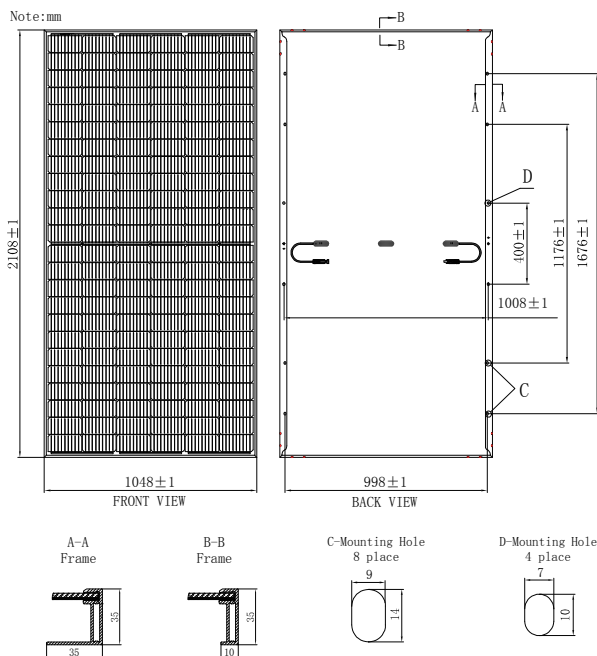
Temperature Characteristics

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

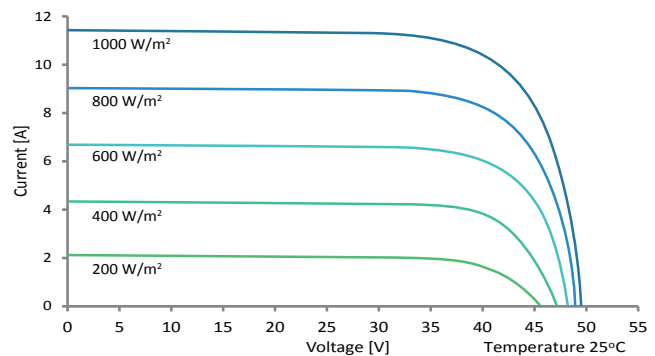
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

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

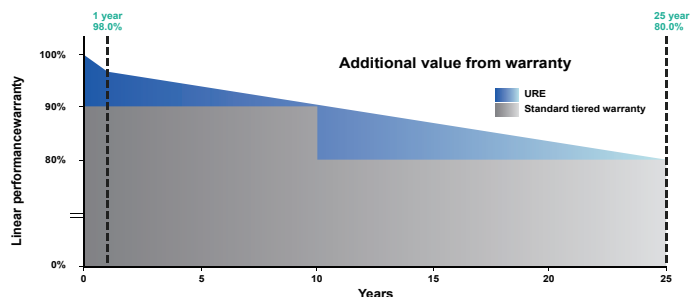
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



Output warranty
25
Years

Product Guarantee
25
Years

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Taipei Office

9F, No. 295, Tiding Blvd. Sec. 2
Taipei, Taiwan 11493

Tel : +886-2-2656-2000

Fax : +886-2-2656-0593

e-mail : sales@urecorp.com

Headquarters

No. 7, Li-Hsin 3rd Road, Hsinchu Science Park
Hsinchu city 30078, Taiwan

Tel : +886-3-578-0011

Fax : +886-3-578-1255

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