




## PEACH

FBK\_M7D / 120 cells  
 430W-450 W  
 Mono-Crystalline PV Module

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



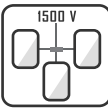
## Key Features



Positive power tolerance  
 +0 ~ 5 watt



100% EL inline inspection  
 Better module reliability



Design for 1500 VDC  
 Reduce the system BOS effectively

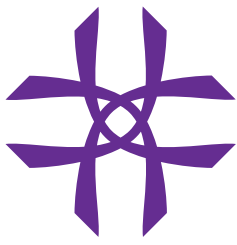


PID resistance  
 Excellent PID resistance performance



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





# URE

United Renewable Energy Co., Ltd.

## Electrical Data

Model - STC		FBK430M7D	FBK435M7D	FBK440M7D	FBK445M7D	FBK450M7D
Maximum Rating Power (Pmax)	[W]	430	435	440	445	450
Module Efficiency	[%]	19.86	20.09	20.32	20.55	20.78
Open Circuit Voltage (Voc)	[V]	41.04	41.27	41.51	41.73	41.96
Maximum Power Voltage	[V]	34.24	34.47	34.71	34.93	35.16
Short Circuit Current (Isc)	[A]	13.31	13.37	13.43	13.49	13.55
Maximum Power Current	[A]	12.56	12.62	12.68	12.74	12.80

\*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%

\*Assembly:CN

## Mechanical Data

Item	Specification
Dimensions	1909mm (L) <sup>1</sup> x 1134 mm (W) <sup>1</sup> x 40 mm (D) <sup>2</sup> / 75.16" (L) <sup>1</sup> x 44.65" (W) <sup>1</sup> x 1.57" (D) <sup>2</sup>
Weight	22.9 kg / 50.49 lbs
Solar Cell	Mono/ 182mm x 91mm, 120 monocrystalline cells
Front Glass	High transmission tempered glass
Frame	Anodized aluminum alloy
Junction Box	Forward PV-A4G6
Cables	4.0 mm <sup>2</sup>
Connector Type	Forward 01C1 (MC4 compatible)
Package Configuration	27 pcs Per Pallet, 648 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	1500 VDC
Series Fuse Rating	25 A
Operating Temperature	-40 to 85 °C

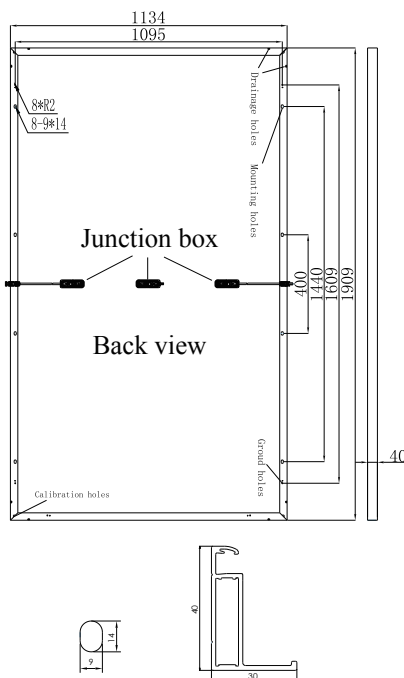
## Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	0.039 % / °C
Temperature Coefficient of Voc	-0.295 % / °C
Temperature Coefficient of Pmax	-0.390 % / °C

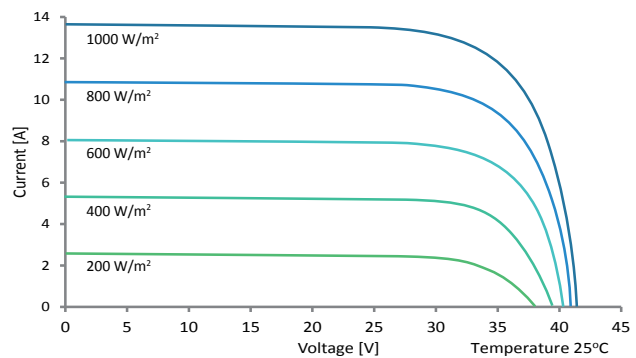
\*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s.

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

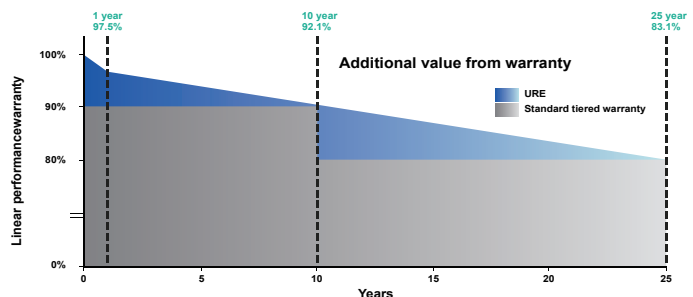
## Engineering Drawing (mm)



## Dependence on Irradiance



## Reliability with Warranty



Output warranty  
**25**  
Years

Product Guarantee  
**12**  
Years

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