

A company from Taiwan where the sun shines
URECO
 United Renewable Energy Co., Ltd.



FBK_MFG / 108 cells
 395W - 410 W
 Mono-Crystalline PV Module

United Renewable Energy Co., Ltd. (a company from Taiwan where the sun shines) Peach module uses URECO state-of-the-art cell cutting technology, and advanced module manufacturing experiences.



UL 61730, CE-compliant
 Quality Controlled PV-TÜV SÜD
 IEC 61215:2016, IEC 61730:2016

Key Features



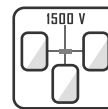
Positive power tolerance
 +0 ~ +5 watt



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
 (200W/m²)



Fire resistance
 Class of reaction to Type 1/ Class C



Electrical Data

Model - STC		FBK395MFG	FBK400MFG	FBK405MFG	FBK410MFG
Maximum Rating Power (Pmax)	[W]	395	400	405	410
Module Efficiency	[%]	20.23	20.49	20.75	21.00
Open Circuit Voltage (Voc)	[V]	37.03	37.20	37.36	37.54
Maximum Power Voltage	[V]	31.00	31.17	31.36	31.55
Short Circuit Current (Isc)	[A]	13.59	13.68	13.78	13.86
Maximum Power Current	[A]	12.75	12.84	12.92	13.00

*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	1723 mm (L) ¹ x 1133 mm (W) ¹ x 35 mm (D) ² / 67.83" (L) ¹ x 44.61" (W) ¹ x 1.38" (D) ²
Weight	21.7 kg / 47.84 lbs
Solar Cell	12x9 pieces monocrystalline solar cells series strings
Front Glass	White toughened safety glass, 3.2mm thickness
Cell Encapsulation	EVA (Ethylene-Viny-Acetate)
Frame	Anodized aluminum profile
Junction Box	IP≥ 68, 3 diodes
Cable	Potrait : 500 mm (cable length can be customized), 1 x 4mm ²
Connectors Type	Compatible with MC4
Package Configuration	31 pcs Per Pallet, 806 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

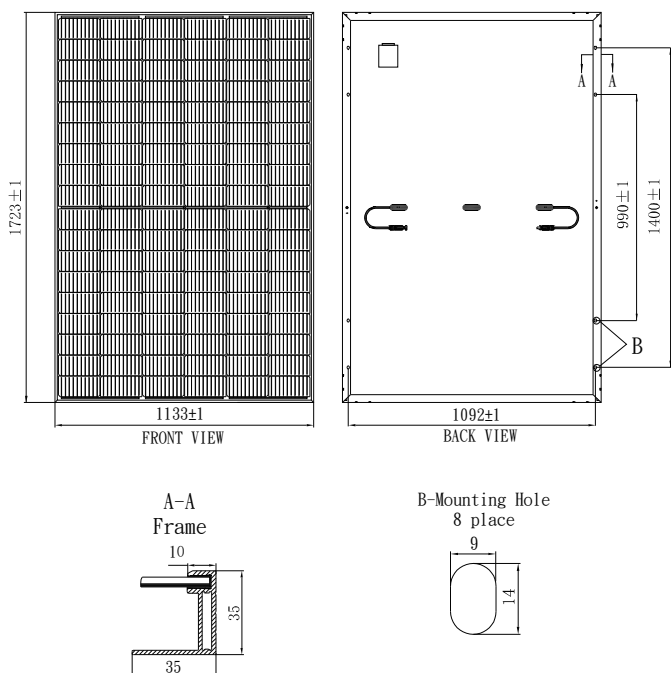
Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1500V
Series Fuse Rating	30 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

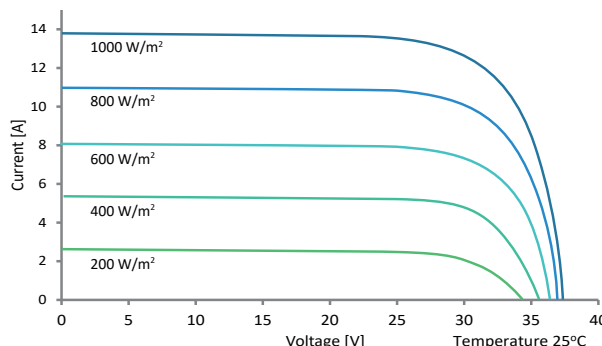
Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.048 % / °C
Temperature Coefficient of Voc	-0.27 % / °C
Temperature Coefficient of Pmax	-0.32 % / °C

*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%.

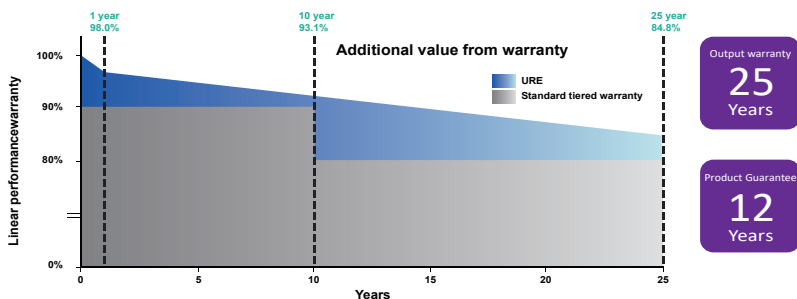
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



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