



FBK_E8D / 144 cells
 520W-540 W
 Mono-Crystalline PV Module

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



Key Features



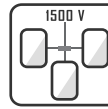
Positive power tolerance
 +0 ~ +4.99 watt



100% EL inline inspection
 Better module reliability



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

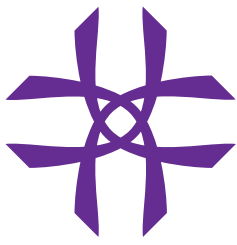


Design for 1500 VDC
 Reduce the system BOS effectively



Excellent low light performance
 3.5% relative eff. Reduction at low-irradiance (200W/m²)





URE

United Renewable Energy Co., Ltd.

Electrical Data

Model - STC		FBK520E8D	FBK525E8D	FBK530E8D	FBK535E8D	FBK540E8D
Maximum Rating Power (Pmax)	[W]	520	525	530	535	540
Module Efficiency	[%]	20.06	20.25	20.44	20.64	20.83
Open Circuit Voltage (Voc)	[V]	49.38	49.50	49.63	49.76	49.89
Maximum Power Voltage	[V]	41.11	41.34	41.57	41.80	42.03
Short Circuit Current (Isc)	[A]	13.40	13.45	13.50	13.55	13.60
Maximum Power Current	[A]	12.65	12.70	12.75	12.80	12.85

*Standard Test Condition (STC): Cell Temperature 25 °C, Irradiance 1000 W/m², AM 1.5

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

*Assembly:CN

Mechanical Data

Item	Specification
Dimensions	2286mm (L) ¹ x 1134 mm (W) ¹ x 40 mm (D) ² / 90.00" (L) ¹ x 44.65" (W) ¹ x 1.57" (D) ²
Weight	27.4 kg / 60.41 lbs
Solar Cell	Mono / 182 mm x 91mm
Junction Box	IP 68 , 3 diodes
Cables / Connectors	4.0 mm ² , MC4 Compatible
Frame	Anodized aluminum alloy
Package Configuration	27pcs Per Pallet, 540 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

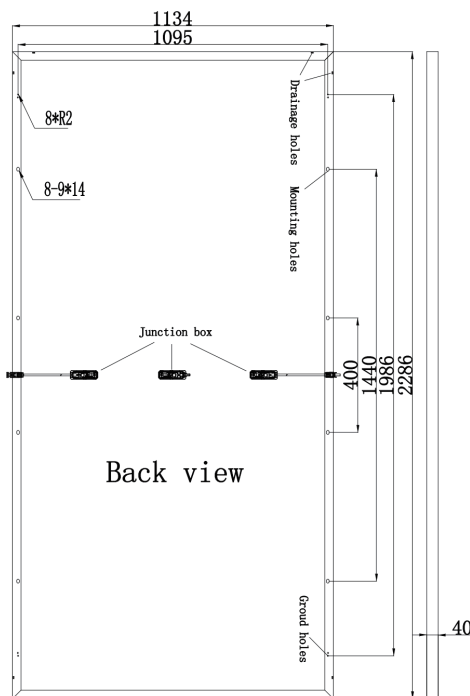
Temperature Characteristics

Item	Specification
Nominal Module Operating Temperature	43°C ± 2°C
Temperature Coefficient of Isc	0.039 % / °C
Temperature Coefficient of Voc	-0.295 % / °C
Temperature Coefficient of Pmax	-0.39% / °C

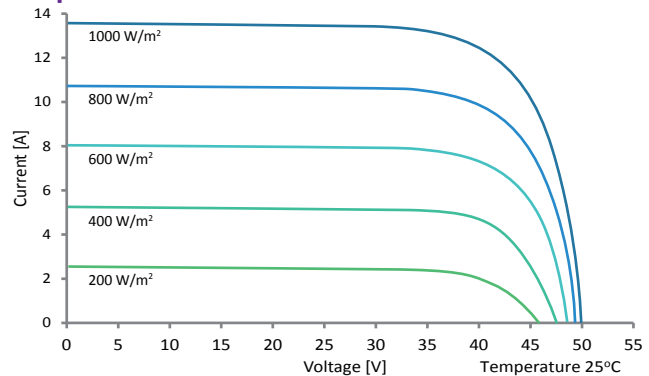
*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, windspeed 1 m/s.

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

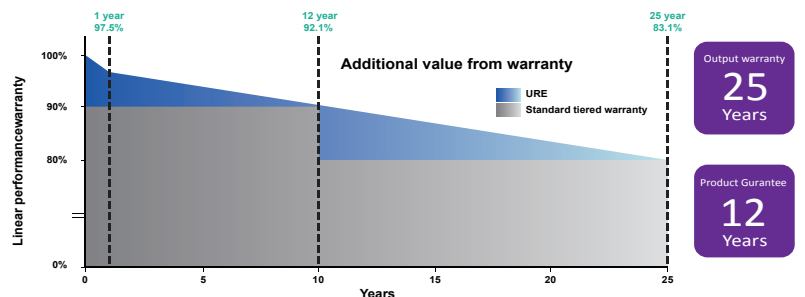
Engineering Drawing (mm)



Dependence on Irradiance



Reliability with Warranty



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