

URE

UNITED RENEWABLE ENERGY

FBM400MFG-BB / 108 cells 400 Watt Mono-Crystalline PV Module



URE modules use state-of-the-art cell cutting technology, and advanced module manufacturing experience to provide leading power density and long term reliability.

UL 61730, CE-compliant
Quality Controlled PV-TÜV
SUD IEC 61215:2016,
IEC 61730:2016
Type 1/Class C Fire Rating

Key Features



At 400 Watts and 20.49% Efficiency URE Solar Panels are Industry Leaders in Output and Efficiency



25 Year Output Warranty and 25 Year Product Guarantee



Super All Black Design with more Uniform Appearance for High Profile Residential Installations



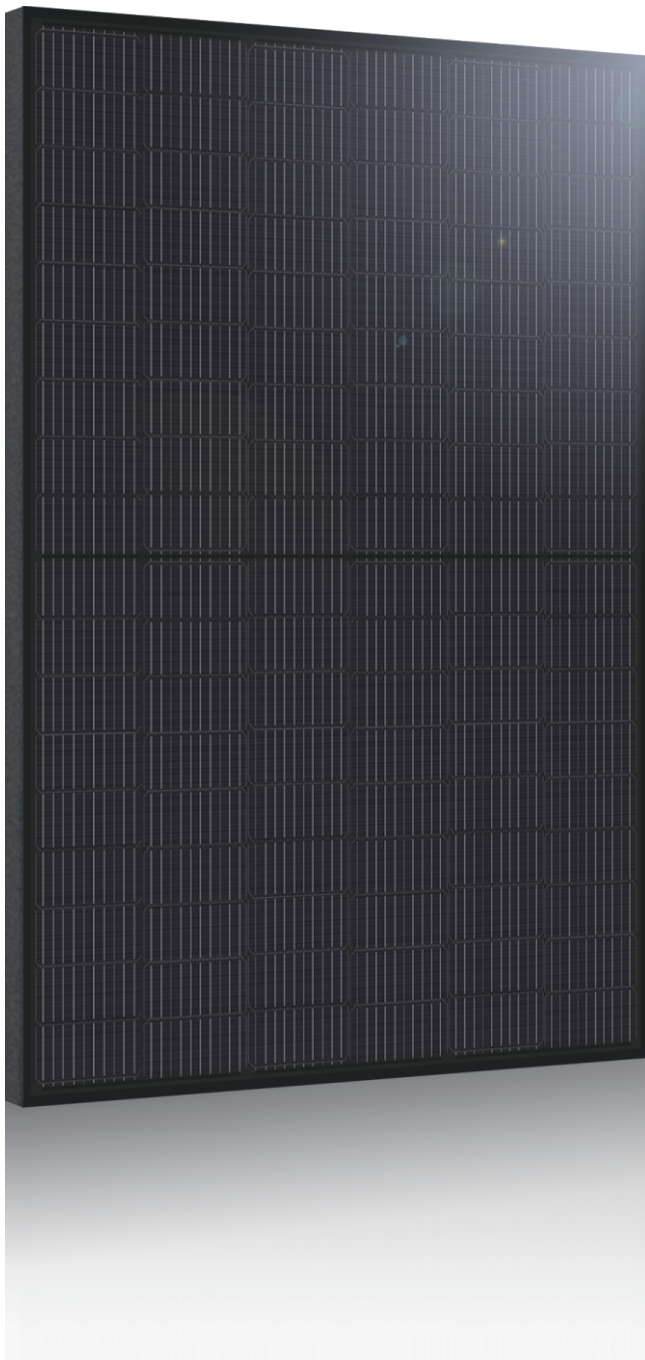
High Quality Solar Cell Technology allows URE to be a major international exporter to Solar Module manufacturers in the United States and Europe



Excellent Performance in Low Light and Poor Weather Conditions to Maximize Energy Harvest



Winner of Taiwan Excellence Award 7 Consecutive Years for Highest Efficiency Module



THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings



Residential ground mount arrays



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Electrical Data

Model - STC		FBM390MFG-BB	FBM395MFG-BB	FBM400MFG-BB	FBM405MFG-BB
Maximum Rating Power (Pmax)	[W]	390	395	400	405
Module Efficiency	[%]	19.98	20.23	20.49	20.75
Open Circuit Voltage (Voc)	[V]	36.84	37.03	37.20	37.36
Maximum Power Voltage	[V]	30.82	31.00	31.17	31.36
Short Circuit Current (Isc)	[A]	13.50	13.59	13.68	13.78
Maximum Power Current	[A]	12.66	12.75	12.84	12.92

*Standard Test Conditions (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-Vinyl-Acetate)
Frame	Black anodized aluminum profile
Junction Box	IP≥ 68, 3 diodes
Cable & Connector	Portrait : 1200 mm (cable length can be customized), 1 x 4 mm ² 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

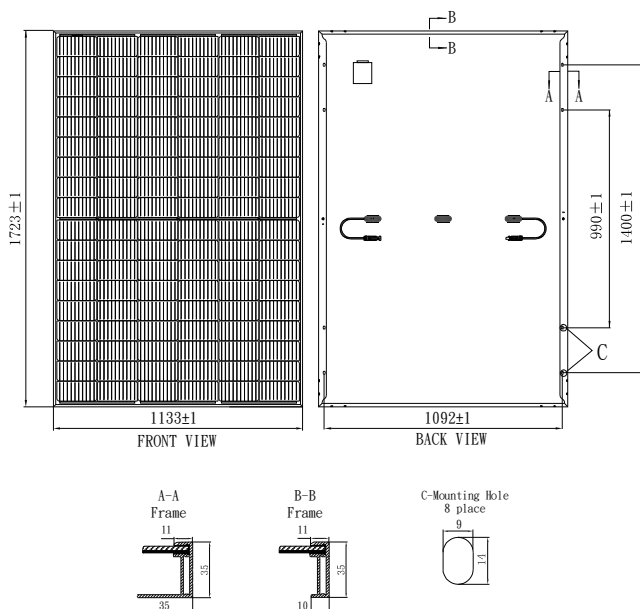
Item	Specification
Mechanical Load	5400 Pa
Maximum System Voltage	1000V
Series Fuse Ratings	30 A
Operating Temperature	-40 to 85 °C

Temperature Characteristics

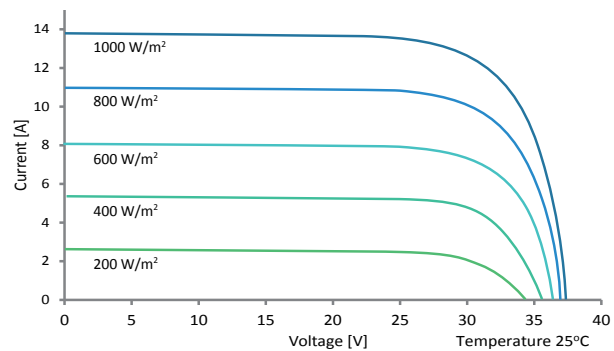
Item	Specification
Nominal Module Operating Temperature	45°C ± 2°C
Temperature Coefficient of Isc	0.048 % / °C
Temperature Coefficient of Voc	-0.27 % / °C
Temperature Coefficient of Pmax	-0.32 % / °C

*Nominal module operating temperature (NMOT): Air mass AM 1.5, irradiance 800W/m², temperature 20°C, wind speed 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

