UNIVERSAL SOLAR

UNI-405-108M-BB

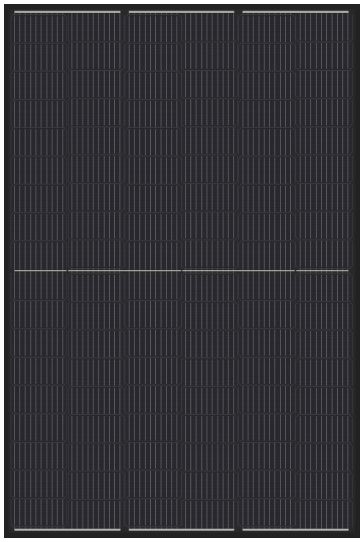
UNI-405-108M-BB **UNI-400-108M-BB**
UNI-395-108M-BB **UNI-390-108M-BB**

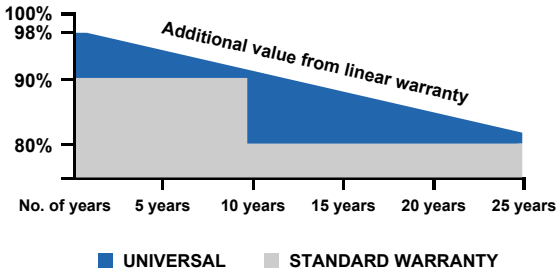
405W
Highest power output

20.75%
Module efficiency

12 years
Material & Workmanship warranty

25 years
Linear power output warranty





- MBB technology with Circular Ribbon
- Higher output power
- Half-cell technology
- Positive tolerance offer
- Micro Gap
- Better shading tolerance
- Certified for salt/ammonia corrosion resistance
- Load certificates: wind to 2400Pa and snow to 5400Pa
- Lower LCOE

Universal Solar is committed to providing readily available, high-quality, renewable energy products and services at competitive prices. This includes modules made in Panama, which are manufactured to the highest standards with all Tier 1 BOM, utilizing fully automated high-tech manufacturing lines and surpassing Tier 1 processes. Universal's modules are tariff-free, use WRO-compliant silicon, and can be delivered to any U.S. port in 5 days.

Electrical Characteristics at Standard Test Conditions (STC)

Module Type	UNI-405-108M-BB	UNI-400-108M-BB	UNI-395-108M-BB	UNI-390-108M-BB
Maximum Power - Pmax (W)	405	400	395	390
Open Circuit Voltage - Voc (V)	37.36	37.2	37.03	36.84
Short Circuit Current - Isc (A)	13.78	13.68	13.59	13.5
Maximum Power Voltage - Vmpp (V)	31.36	31.17	31	30.82
Maximum Power Current - Impp (A)	12.92	12.84	12.75	12.66
Module Efficiency	20.75%	20.49%	20.23%	19.98%

Standard Test Conditions(STC): irradiance 1,000W/m²; AM1,5; module temperature 25°C. Pmax Sorting: 0~5W. Measuring Tolerance: ±3%.
Remark: Electrical data do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

Module Type	UNI-405-108M-BB	UNI-400-108M-BB	UNI-395-108M-BB	UNI-390-108M-BB
Maximum Power - Pmax (W)	302.1	298.4	294.7	287.3
Open Circuit Voltage - Voc (V)	35.1	34.9	34.8	34.5
Short Circuit Current - Isc (A)	11.19	11.13	11.05	10.91
Maximum Power Voltage - Vmpp (V)	29.1	28.9	28.8	28.4
Maximum Power Current - Impp (A)	10.39	10.32	10.25	10.1

Normal Operating Cell Temperature (NOCT): irradiance 800W/m²; wind speed 1m/s; ambient temperature 20/°C. Measuring Tolerance: ±3%.

Temperature Characteristics

NOCT	45°C (±2°C)
Voltage Temperature Coefficient	-0.27%/°C
Current Temperature Coefficient	+0.048%/°C
Power Temperature Coefficient	-0.32%/°C

Maximum Ratings

Maximum System Voltage [V]	1000
Series Fuse Rating [A]	30

Material Characteristics

Dimensions	1723 × 1133 × 35mm (L×W×H)
Weight	21.8kg
Frame	Black anodized aluminum profile
Front Glass	White toughened safety glass, 3.2mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×9 pieces monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable & Connector	Potrait: 500mm (cable length can be customized),1×4 mm2,compatible with MC4

Packaging

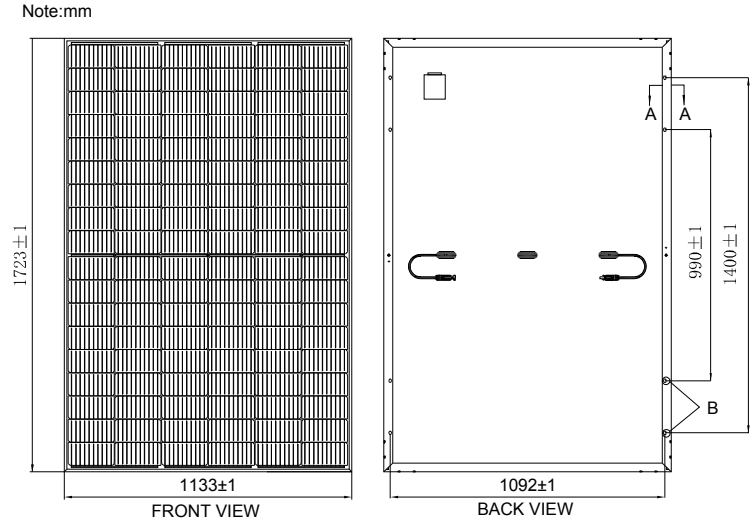
Dimensions (L×W×H)	1760×1125×1253mm
Container 20'	186
Container 40'	403
Container 40'HC	806

System Design

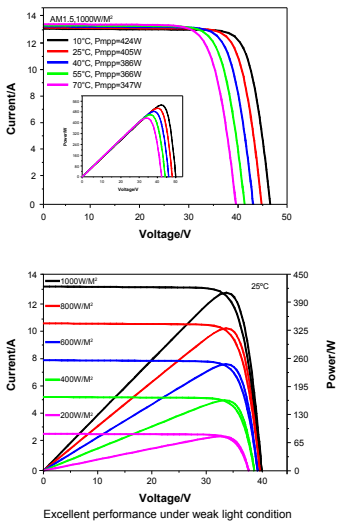
Temperature Range	-40°C to +85°C
Withstanding Hail	Maximum diameter of 25mm with impact speed of 23 m/s-1
Maximum Surface Load	5,400 Pa
Application Class	class A

Dimensions

Note:mm



IV-Curves



Excellent performance under weak light condition