

# UNI-545-144BMH-DG

545W Highest power output

21.32% Module efficiency

12 years Material & Workmanship warranty

Linear power output warranty



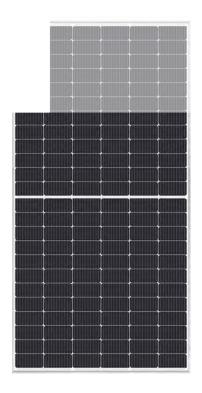
MBB technology with Circular Ribbon

Higher output power

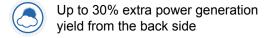
Half-cell technology

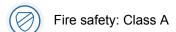
Positive tolerance offer

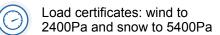
UNI-545-144BMH-DG UNI-535-144BMH-DG UNI-540-144BMH-DG UNI-530-144BMH-DG

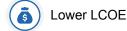












Universal Solar is committed to providing readily available, high-quality, renewable energy products and services at competitive prices. This includes modules made in Panama, which are manufactured to the highest standards with all Tier 1 BOM, utilizing fully automated high-tech manufacturing lines and 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-545-144BMH-DG	UNI-540-144BMH-DG	UNI-535-144BMH-DG	UNI-530-144BMH-DG
Maximum Power - Pmax (W)	545	540	535	530
Open Circuit Voltage - Voc (V)	49.81	49.65	49.5	49.35
Short Circuit Current - Isc (A)	13.92	13.85	13.78	13.71
Maximum Power Voltage - Vmpp (V)	41.8	41.65	41.5	41.35
Maximum Power Current - Impp (A)	13.04	12.97	12.9	12.82
Module Efficiency	21.32%	21.13%	20.93%	20.74%

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 with different rearside power gain (reference to 445 front)**

Pmax (W)	Voc (V)	Isa (A)	Vmpp (V)	Impp (A)	Pmax gain	
567	49.65	14.54	41.65	13.62	5%	
594	49.65	15.24	41.65	14.27	10%	
648	49.75	16.62	41.61	15.56	20%	
675	49.75	17.31	41.61	16.21	25%	

## **Temperature Characteristics**

#### **Maximum Ratings**

NOCT	45°C (±2°C)	Maximum System Voltage [V]	1500
Voltage Temperature Coefficient	-0.27%/°C	Series Fuse Rating [A]	30
Current Temperature Coefficient	+0.048%/°C	Bifaciality	70%±10%
Power Temperature Coefficient	-0.32%/°C		

#### **Material Characteristics**

Dimensions 2256 × 1133 × 35mm (L×W×H)

Weight 32.5kg

Frame Silver anodized aluminum profile

Front Glass High-transparency, antireflection-coated, semi-toughened safety glass, 2.0mm

Cell Encapsulation EVA or POE

 Back Sheet
 Glazed & semi-toughened safety glass, 2.0mm

 Cells
 12×12 pieces monocrystalline solar cells series strings

Junction Box IP68, 3 diodes

Cable & Connector Potrait: 500mm (cable length can be customized),1×4 mm2, Connector: PV-ZH202B

#### **Packaging**

#### **System Design**

Dimensions (L×W×H)	2290×1125×1253mm	Temperature Range	-40°C to +85°C
Container 20'	150	Withstanding Hail	Maximum diameter of 25mm with impact speed of 23 m/s
Container 40'	300	Maximum Surface Load	5,400 Pa
Container 40'HC	600	Application Class	class A

