MADE IN VIETNAM, manufacture by VIETNAM SUNERGY JOINT STOCK COMPANY

VSUN
Innovative & Smart

VSUN545-144BMH-DG

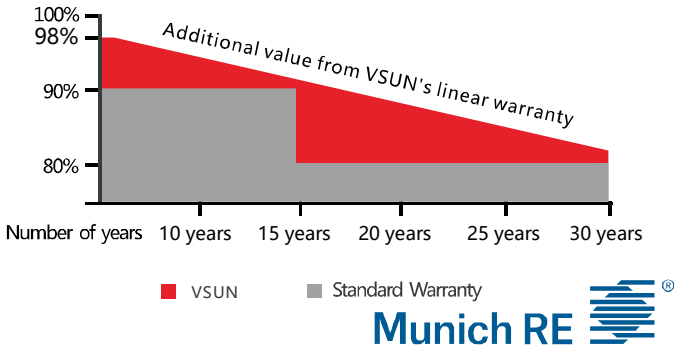
VSUN545-144BMH-DG VSUN540-144BMH-DG
VSUN535-144BMH-DG VSUN530-144BMH-DG

545W
Highest power output

21.32%
Module efficiency

12years
Material & Workmanship warranty

30years
Linear power output warranty



- MBB technology with Circular Ribbon
- Higher output power
- Half-cell Technology
- Positive tolerance offer
- Micro Gap
- Up to 30% extra power generation yield from the back side
- Fire safety: Class A
- Load certificates: wind to 2400Pa and snow to 5400Pa
- Lower LCOE

VSUN, a BNEF Tier-1 PV module manufacturer invested by Fuji Solar, has been committed to providing greener, cleaner and more intelligent renewable energy solutions. VSUN is dedicated to bringing reliable, customized and high-efficient products into various markets and customers worldwide

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Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN545-144BMH-DG	VSUN540-144BMH-DG	VSUN535-144BMH-DG	VSUN530-144BMH-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 1,000 W/m²; AM 1,5; 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 rear side power gain(reference to 540 front)

Pmax (W)	Voc (V)	Isc (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

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]	1500
Series Fuse Rating [A]	30
Bifaciality	70%±10%

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 (Ethylene-Vinyl-Acetate) or POE
Back Glass	Glazed & Semi-toughened safety glass, 2.0mm
Cells	12×12 pieces bifacial monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable&Connector	Potrait: 500 mm (cable length can be customized) , 1×4 mm 2 , Connector：PV-ZH202B

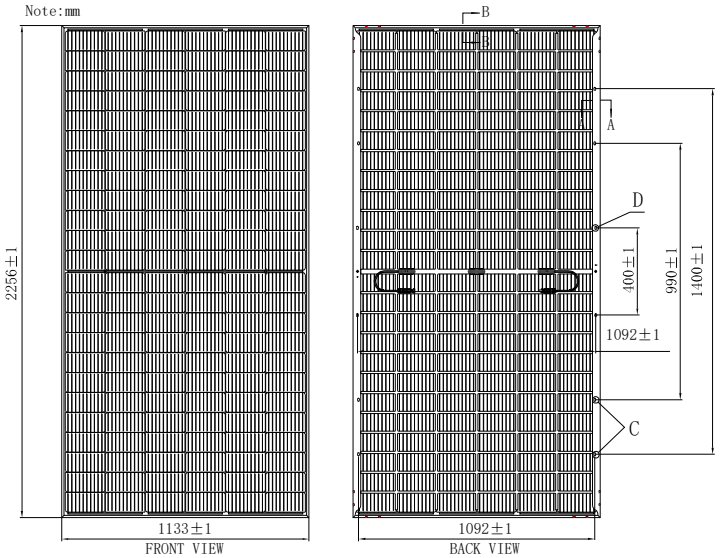
Packaging

Dimensions(L×W×H)	2290×1125×1253mm
Container 20'	150
Container 40'	300
Container 40'HC	600

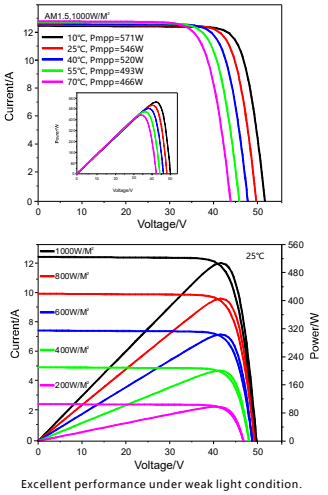
System Design

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

Dimensions



IV-Curves



Excellent performance under weak light condition.