



VSUN550-144BMH-DG

550W

Highest power output

21.52%

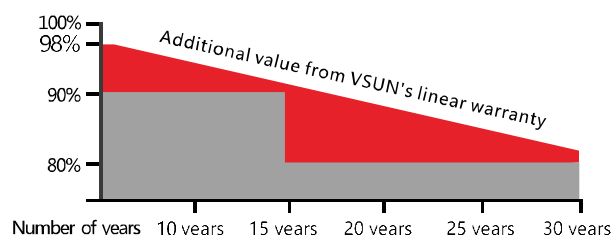
Module efficiency

12years

Material & Workmanship warranty

30years

Linear power output warranty



■ VSUN

■ Standard Warranty

Munich RE



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



Certified for salt/ammonia corrosion resistance



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



Engineered in Japan
www.vsun-solar.com

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN550-144BMH-DG	VSUN545-144BMH-DG	VSUN540-144BMH-DG	VSUN535-144BMH-DG
Maximum Power - Pmax (W)	550	545	540	535
Open Circuit Voltage - Voc (V)	49.92	49.81	49.65	49.5
Short Circuit Current - Isc (A)	13.99	13.92	13.85	13.78
Maximum Power Voltage - Vmpp (V)	42	41.8	41.65	41.5
Maximum Power Current - Imp (A)	13.1	13.04	12.97	12.9
Module Efficiency	21.52%	21.32%	21.13%	20.93%

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 545 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
575	49.76	14.69	41.80	13.76	5%
602	49.76	15.39	41.80	14.41	10%
656	49.81	16.79	41.75	15.72	20%
684	49.81	17.49	41.75	16.38	25%

Temperature Characteristics

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		

Maximum Ratings

Material Characteristics

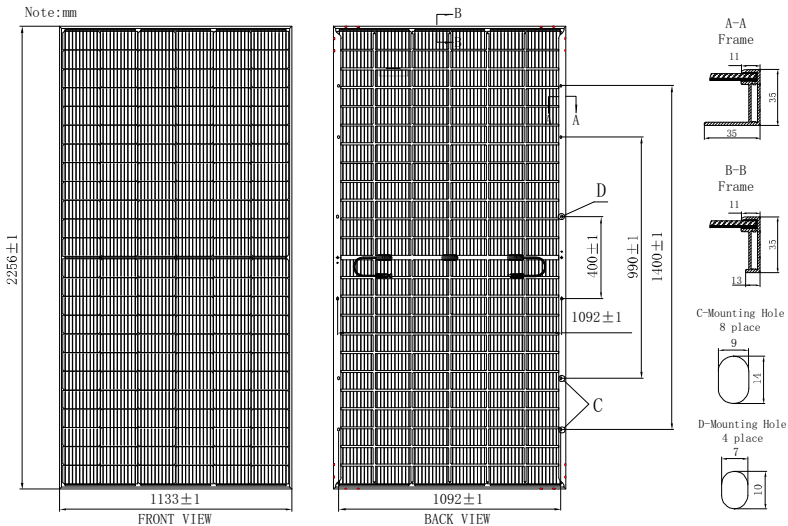
Dimensions	2256×1133×35mm (L×W×H)
Weight	32.5kg
Frame	Silver anodized aluminum profile
Front Glass	High transparency,Antireflection coated,Semi-toughened safety glass, 2.0mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back Glass	Glazed & Semi-toughened safety glass, 2.0mm
Cells	12×12 pieces 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 , compatible with MC4

Packaging

Dimensions(L×W×H)	2290×1125×1253mm	Temperature Range	-40 °C to + 85 °C
Container 20'	150	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Container 40'	300		
Container 40'HC	540 PCS, 30PCS/Pallet	Maximum Surface Load	5,400 Pa
		Application class	class A

System Design

Dimensions



IV-Curves

