

VSUN550-144MH

550W

Highest power output

21.52%

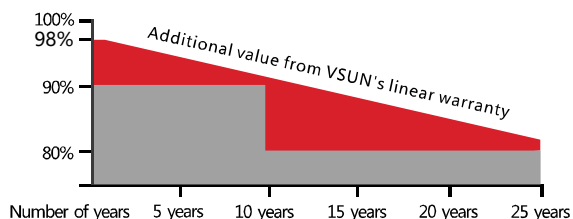
Module efficiency

12years

Material & Workmanship warranty

25years

Linear power output warranty



■ VSUN

■ Standard Warranty

Munich RE 



PERC cell technology



Higher output power



Lower risk of micro-crack



Positive tolerance offer



Lower risk of hot spot



Better shading tolerance



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

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN550-144MH	VSUN545-144MH	VSUN540-144MH	VSUN535-144MH
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 at Normal Operating Cell Temperature(NOCT)

Module Type	VSUN550-144MH	VSUN545-144MH	VSUN540-144MH	VSUN535-144MH
Maximum Power - Pmax (W)	412.4	408.3	404.6	400.9
Open Circuit Voltage - Voc (V)	46.8	46.7	46.5	46.4
Short Circuit Current - Isc (A)	11.3	11.24	11.19	11.13
Maximum Power Voltage - Vmpp (V)	38.6	38.5	38.3	38.2
Maximum Power Current - Imp (A)	10.67	10.61	10.55	10.49

Normal Operating Cell Temperature(NOCT) : irradiance 800W/m²; wind speed 1 m/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]	1500
Series Fuse Rating [A]	30

Material Characteristics

Dimensions	2256×1133×35mm (L×W×H)
Weight	28.6kg
Frame	Silver anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×12 pieces 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

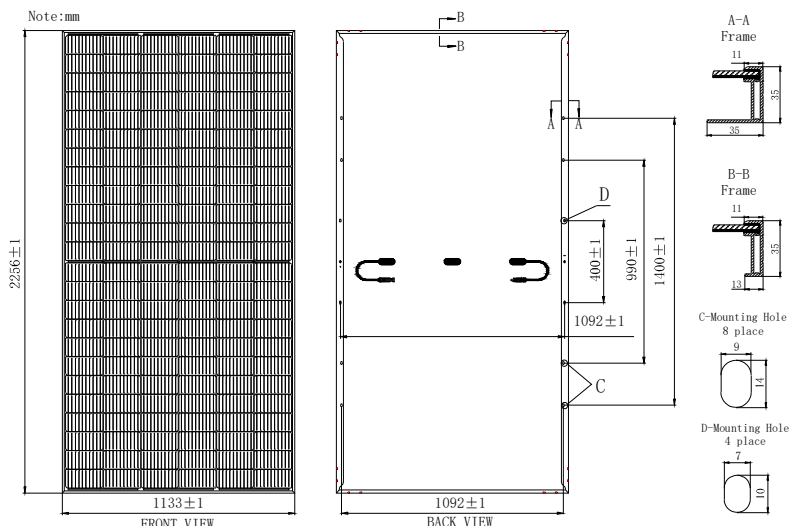
Packaging

Dimensions(L×W×H)	2290×1125×1253mm
Container20'	155
Container40'	310
Container40' HC	620

System Design

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

Dimensions



IV-Curves

