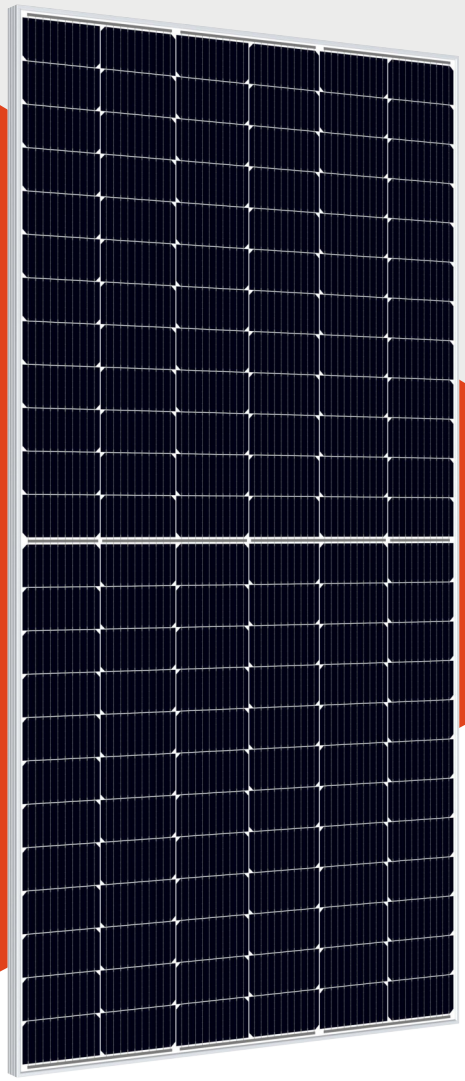
MADE IN VIETNAM, manufacture by VIETNAM SUNERGY JOINT STOCK COMPANY

VSUN
Innovative & Smart



25 YEAR
QUALITY ASSURANCE

25 YEAR
POWER OUTPUT GUARANTEE

VSUN550-144MH

VSUN550-144MH
VSUN545-144MH
VSUN540-144MH
VSUN535-144MH

550W
Highest power output

21.29%
Module efficiency

2.0%
First-year degradation warranty

0.45%
Annual degradation over 25 years

KEY FEATURES

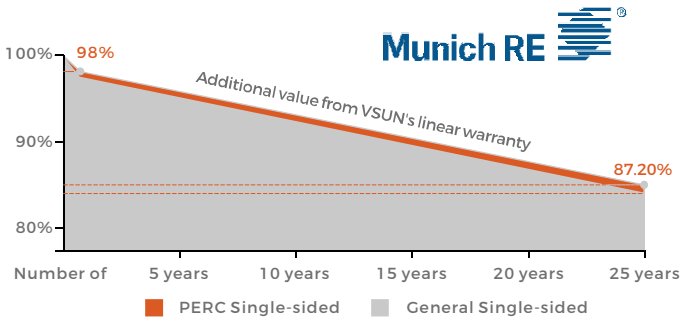
- PERC — MBB technology with Circular Ribbon
- Higher output power
- Half-cell Technology
- Positive tolerance offer
- Lower risk of hot spot
- Better shading tolerance
- Load certificates: wind to 2400Pa and snow to 5400Pa
- Lower LCOE
- UL 61730 & CSA 61730
  IEC 61215 & IEC 61730

ABOUT VSUN

Invested by Fuji Solar, VSUN SOLAR is a solar solution provider with headquartered in Tokyo, Japan that offers reliability, high efficiency solar products and technology globally. VSUN is rated as BNEF Tier 1 PV module manufacturer, PVEL Lab "Best performer" and EcoVadis "Bronze Award".

PRODUCT CERTIFICATION

WARRANTY



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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 - Impp (A)	13.1	13.04	12.97	12.9
Module Efficiency	21.29%	21.10%	20.90%	20.71%

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 - Impp (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/℃. Measuring Tolercance: ±3%.

Material Characteristics

Dimensions	2278×1134×35mm (L×W×H) 89.69*44.65*1.38 inches (L×W×H)
Weight	28.8kg / 63.49lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back sheet	Composite film
Cells	12×12 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 500 mm (cable length can be customized), 1×4 mm2 or 12AWG, Connector: PV-ZH202B(Manufacturer by Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.)

System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Fire Rating	Class C for IEC and TYPE 1 for US
Protection Class	Class II
Temperature Range	-40 °C to + 85 °C
Maximum Surface Load	+5400/-2400 Pa +113/-50 psf
Application class	Class A
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

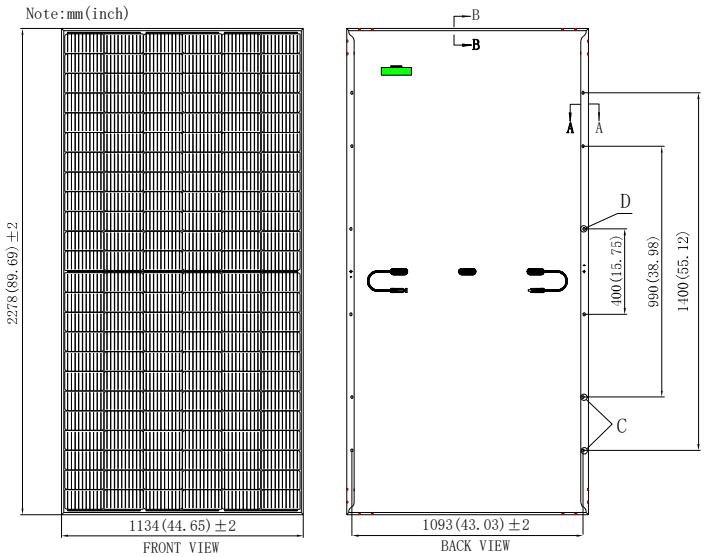
Packaging

Dimensions(L×W×H)	2310×1125×1253mm / 90.94*44.29*49.33inches
Quantity per pallet	31 pcs
Container 20'	155
Container 40'	310
Container 40'HC	620

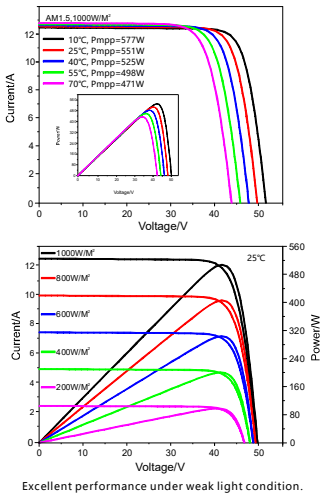
Temperature Characteristics

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

Dimensions



IV-Curves



Excellent performance under weak light condition.

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