

12

YEAR

QUALITY ASSURANCE

30

YEAR

POWER OUTPUT GUARANTEE

VSUN525N-132MH-BB

VSUN525N-132MH-BB VSUN520N-132MH-BB
 VSUN515N-132MH-BB VSUN510N-132MH-BB

525W
 Highest power output

22.11%
 Module efficiency

1.0%
 First-year degradation warranty

0.4%
 Annual degradation over 30 years

KEY FEATURES

TOPcon TOPcon technology

- Higher output power
- MBB technology with Circular Ribbon
- Positive tolerance offer
- Lower risk of hot spot
- Better shading tolerance
- Better temperature coefficient
- Lower LCOE
- UL 61730 & CSA 61730
IEC 61215 & IEC 61730

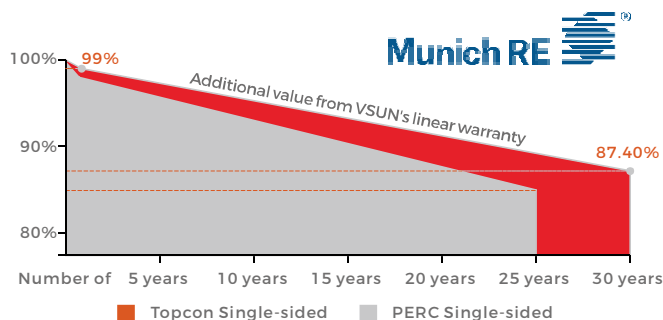
ABOUT VSUN

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



Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN525N-132MH-BB	VSUN520N-132MH-BB	VSUN515N-132MH-BB	VSUN510N-132MH-BB
Maximum Power - Pmax (W)	525	520	515	510
Open Circuit Voltage - Voc (V)	46.96	46.8	46.63	46.48
Short Circuit Current - Isc (A)	14.25	14.17	14.08	13.99
Maximum Power Voltage - Vmpp (V)	38.93	38.78	38.62	38.5
Maximum Power Current - Imp (A)	13.49	13.42	13.34	13.25
Module Efficiency	22.11%	21.90%	21.69%	21.48%

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	VSUN525N-132MH	VSUN520N-132MH	VSUN515N-132MH	VSUN510N-132MH
Maximum Power - Pmax (W)	395.7	392.2	388.2	384.4
Open Circuit Voltage - Voc (V)	44.2	44	43.9	43.8
Short Circuit Current - Isc (A)	11.51	11.44	11.37	11.3
Maximum Power Voltage - Vmpp (V)	36.5	36.4	36.2	36.1
Maximum Power Current - Imp (A)	10.85	10.79	10.72	10.65

Normal Operating Cell Temperature(NOCT) : irradiance 800W/m²; wind speed 1 m/s ; ambient temperature 20°C. Measuring Tolerance: ±3%.

Material Characteristics

Dimensions	2094×1134×30mm (L×W×H) 82.44*44.65*1.18 inches (L×W×H)
Weight	26.2kg / 57.76lbs
Frame	Black anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back sheet	Composite film
Cells	12×11 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 500 mm (cable length can be customized), 1×4 mm ² 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

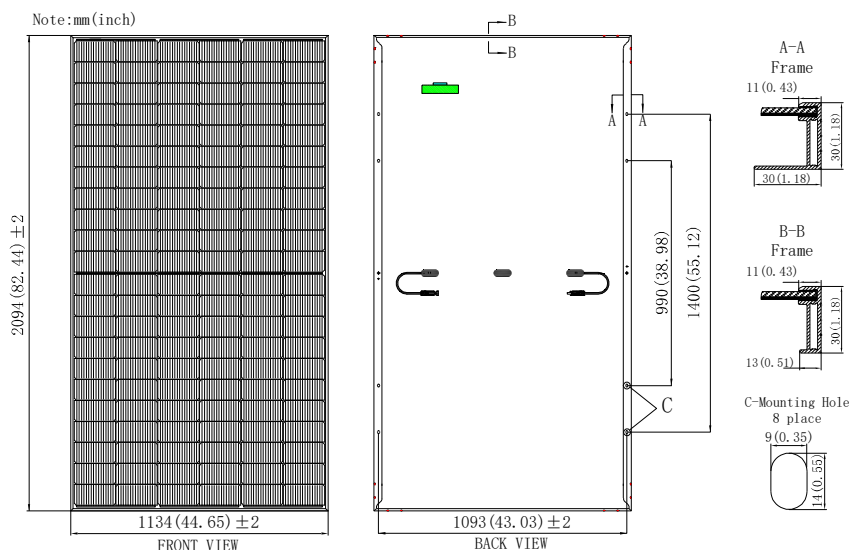
Packaging

Dimensions(L×W×H)	2120×1125×1253mm / 83.46*44.29*49.33inches
Quantity per pallet	36 pcs
Container 20'	180
Container 40'	396
Container 40'HC	792 or 684 for US

Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.26%/°C
Current Temperature Coefficient	+0.046%/°C
Power Temperature Coefficient	-0.30%/°C

Dimensions



IV-Curves

