

# VSUN

Innovative & Smart

**25**  
YEAR  
QUALITY ASSURANCE

**30**  
YEAR  
POWER OUTPUT GUARANTEE

## VSUN525N-132BMH

VSUN525N-132BMH

VSUN520N-132BMH

VSUN515N-132BMH

VSUN510N-132BMH

**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



Bifacial cells, converting more sunlight into electricity



Better shading tolerance



Better temperature coefficient



Lower LCOE

UL 61730 & CSA 61730  
IEC 61215 & IEC 61730

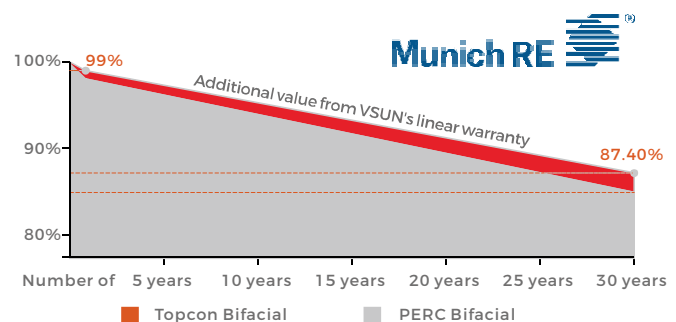
### ABOUT VSUN

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-132BMH	VSUN520N-132BMH	VSUN515N-132BMH	VSUN510N-132BMH
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 - Impp (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/m<sup>2</sup>; 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 520 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
546	46.80	14.88	38.78	14.09	5%
572	46.80	15.59	38.78	14.76	10%
623	46.87	17.00	38.70	16.10	20%
649	46.87	17.71	38.70	16.78	25%

## 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	Silver anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back sheet	Transparent white-mesh backsheet
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 <sup>2</sup> 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
Bifaciality	80%±5%
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

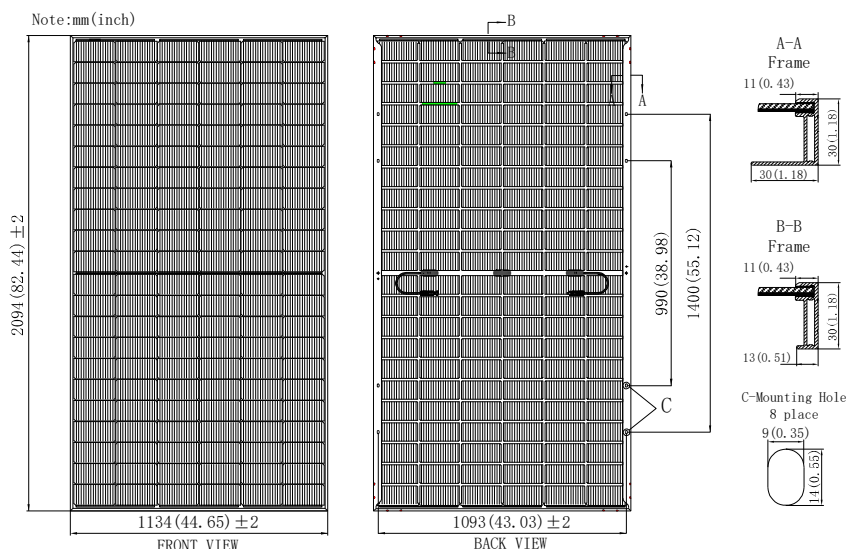
## Packaging

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

