



12

YEAR

QUALITY ASSURANCE

30

YEAR

POWER OUTPUT GUARANTEE

VSUN525N-132BMH

VSUN525N-132BMH
VSUN515N-132BMH

VSUN520N-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

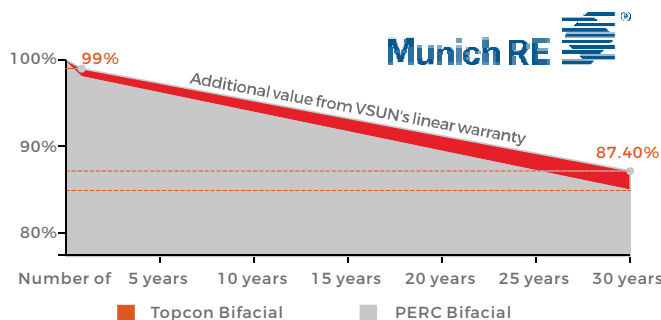
ABOUT VSUN

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/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 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 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
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

