



25
YEAR
QUALITY ASSURANCE

30
YEAR
POWER OUTPUT GUARANTEE

VSUN430N-108MH

VSUN430N-108MH
VSUN420N-108MH

VSUN425N-108MH
VSUN415N-108MH

430W

Highest power output

22.02%

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

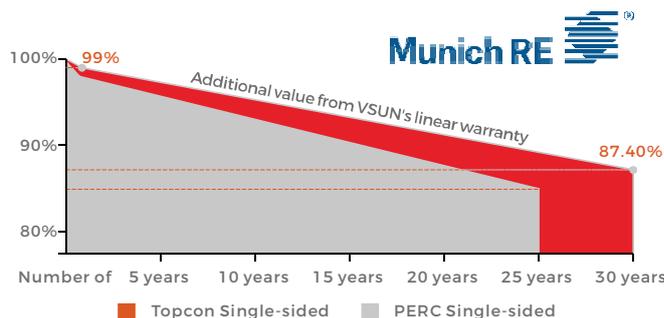
ABOUT VSUN

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	VSUN430N-108MH	VSUN425N-108MH	VSUN420N-108MH	VSUN415N-108MH
Maximum Power - Pmax (W)	430	425	420	415
Open Circuit Voltage - Voc (V)	38.5	38.4	38.11	37.92
Short Circuit Current - Isc (A)	14.23	14.16	14.07	13.99
Maximum Power Voltage - Vmpp (V)	31.89	31.72	31.52	31.33
Maximum Power Current - Impp (A)	13.5	13.4	13.32	13.24
Module Efficiency	22.02%	21.76%	21.51%	21.25%

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	VSUN430N-108MH	VSUN425N-108MH	VSUN420N-108MH	VSUN415N-108MH
Maximum Power - Pmax (W)	324.4	320.6	316.6	312.9
Open Circuit Voltage - Voc (V)	36.2	36.1	35.9	35.7
Short Circuit Current - Isc (A)	11.5	11.43	11.36	11.3
Maximum Power Voltage - Vmpp (V)	29.9	29.8	29.6	29.4
Maximum Power Current - Impp (A)	10.84	10.77	10.7	10.64

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

Material Characteristics

Dimensions	1722×1134×30mm (L×W×H) 67.80*44.65*1.18 inches (L×W×H)
Weight	21.4kg / 47.18lbs
Frame	Sliver anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back sheet	Composite film
Cells	12×9 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes 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.)
Cable	

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

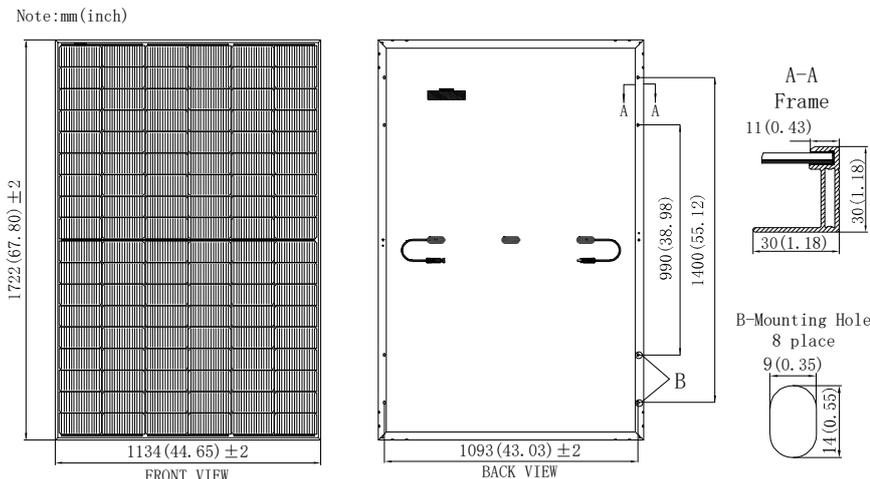
Packaging

Dimensions(L×W×H)	1760×1125×1253mm / 69.29*44.29*49.33inches
Quantity per pallet	36 pcs
Container 20'	216
Container 40'	468
Container 40'HC	936 or 828 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

