

VSUN

Innovative & Smart

25
YEAR
QUALITY ASSURANCE

30
YEAR
POWER OUTPUT GUARANTEE

VSUN430N-108MH

VSUN430N-108MH

VSUN425N-108MH

VSUN420N-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

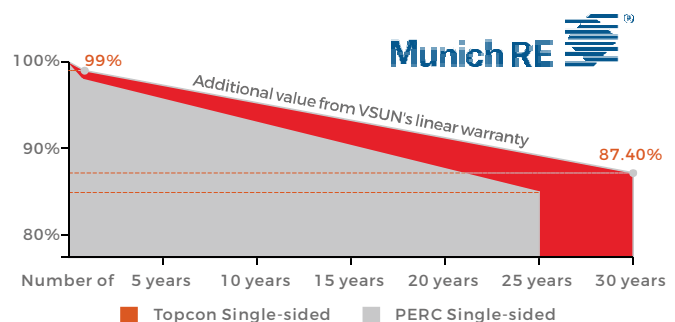
ABOUT VSUN

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 +5400/-2400 Pa +113/-50 psf
Maximum Surface Load	
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

Note:mm (inch)

