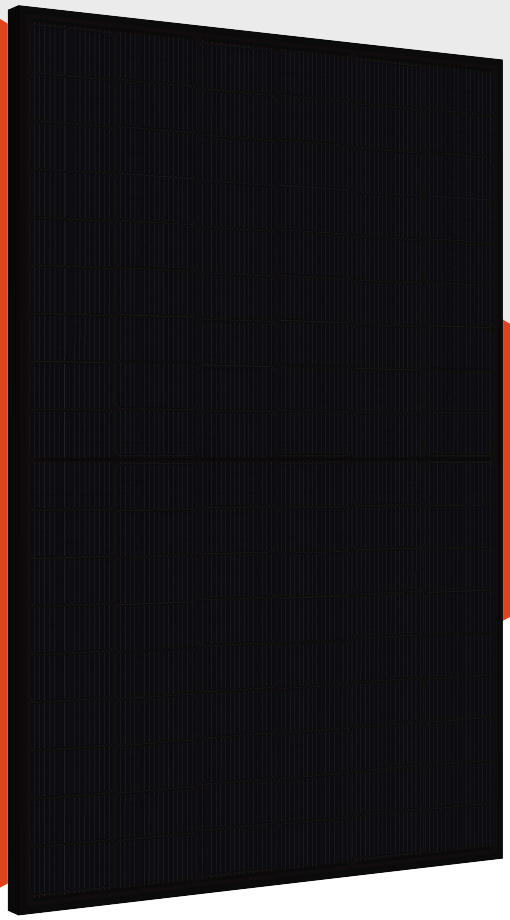
MADE IN VIETNAM, manufacture by VIETNAM SUNERGY JOINT STOCK COMPANY

VSUN
Innovative & Smart



25 YEAR
QUALITY ASSURANCE

30 YEAR
POWER OUTPUT GUARANTEE

VSUN430N-108BMH-DG-BB

VSUN430N-108BMH-DG-BB VSUN425N-108BMH-DG-BB
VSUN420N-108BMH-DG-BB VSUN415N-108BMH-DG-BB

430W
Highest power output

22.02%
Module efficiency

1.0%
First-year degradation warranty

0.4%
Annual degradation over 30 years

ABOUT VSUN

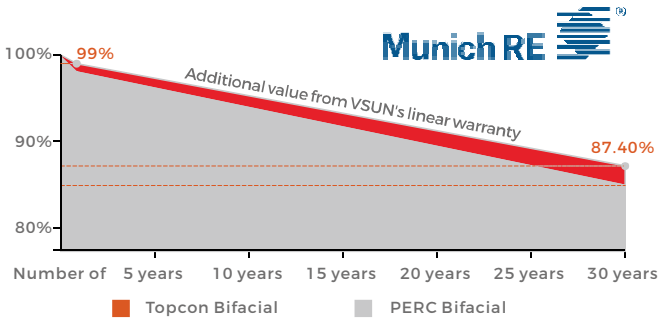
Invested by Fuji Solar, VSUN SOLAR is a solar solution provider with headquartered in Tokyo, Japan that offers reliability, high efficiency solar products and technology globally. VSUN is rated as BNEF Tier 1 PV module manufacturer, PVEL Lab "Best performer" and EcoVadis "Bronze Award".

KEY FEATURES

- 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

PRODUCT CERTIFICATION

WARRANTY



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Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN430N-108BMH-DG-BB	VSUN425N-108BMH-DG-BB	VSUN420N-108BMH-DG-BB	VSUN415N-108BMH-DG-BB
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 with different rear side power gain(reference to 425 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
436	37.92	14.69	31.33	13.90	5%
456	37.92	15.39	31.33	14.56	10%
497	38.00	16.79	31.25	15.89	20%
517	38.00	17.49	31.25	16.55	25%

Material Characteristics

Dimensions	1722×1134×30mm (L×W×H) 67.80*44.65*1.18 inches (L×W×H)
Weight	24.7kg / 54.45lbs
Frame	Black anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Black glazed & Semi-toughened safety glass, 2.0mm
Cells	12×9 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 500 mm (cable length can be customized), 1×4 mm2 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 29 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

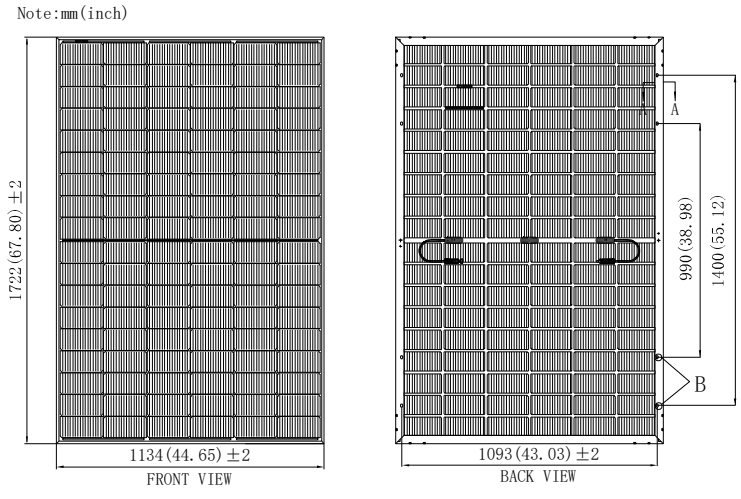
Packaging

Dimensions(L×W×H)	1760×1125×1253mm / 69.29*44.29*49.33inches
Quantity per pallet	35 pcs
Container 20'	210
Container 40'	455
Container 40'HC	910 or 735 for US

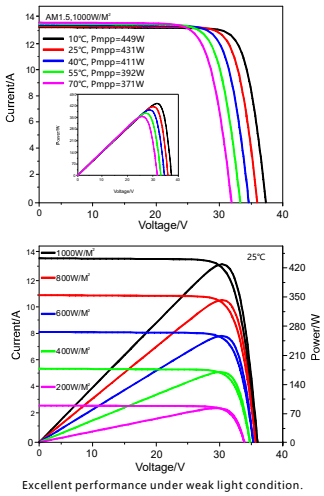
Temperature Characteristics

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



Excellent performance under weak light condition.

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