VSUN
Innovative & Smart

12 YEAR QUALITY ASSURANCE

30 YEAR POWER OUTPUT GUARANTEE

VSUN430N-108MH-BB

VSUN425N-108MH-BB VSUN420N-108MH-BB
VSUN415N-108MH-BB

430W
Highest power output

22.02%
Module efficiency

1.0%
First-year degradation warranty

0.4%
Annual degradation over 30 years

KEY FEATURES

- N-type TOPCon Technology
- Higher output power
- MBB technology with Circular Ribbon
- Positive tolerance offer
- Lower LID
- Better shading tolerance
- Better temperature coefficient
- Excellent PID Resistance
- Lower LCOE

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

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Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN430N-108MH-BB	VSUN425N-108MH-BB	VSUN420N-108MH-BB	VSUN415N-108MH-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)	14.24	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-BB	VSUN425N-108MH-BB	VSUN420N-108MH-BB	VSUN415N-108MH-BB
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 Tolercance: ±3%.

Material Characteristics

Dimensions	1722×1134×30mm (L×W×H)
Weight	21.4kg
Frame	Black anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×9 pieces monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable&Connector	Potrait: 500 mm (cable length can be customized) , 1×4 mm2, compatible with MC4

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

Maximum Ratings

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30

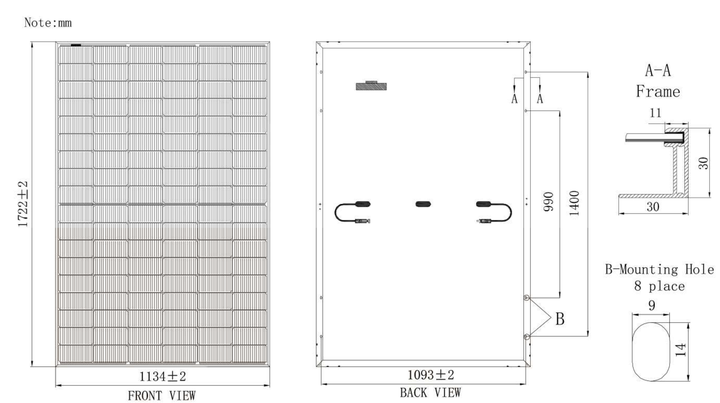
Packaging

Dimensions(L×W×H)	1760×1125×1253mm
Container 20'	216
Container 40'	468
Container 40'HC	936 or 864 for US

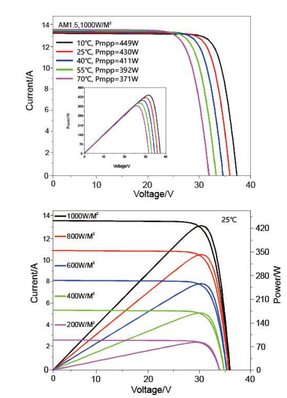
System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m·s-1
Maximum Surface Load	5,400 Pa
Application class	class A

Dimensions



IV-Curves



Excellent performance under weak light condition.