VSUN

Innovative & Smart

12 YEAR QUALITY ASSURANCE

30 YEAR POWER OUTPUT GUARANTEE

VSUN575N-144BMH-DG

VSUN570N-144BMH-DG VSUN565N-144BMH-DG
VSUN560N-144BMH-DG

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

TÜV SÜD, CSA C US, CE, PV CYCLE, ISO, IEC

PRODUCT CERTIFICATION

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN575N-144BMH-DG	VSUN570N-144BMH-DG	VSUN565N-144BMH-DG	VSUN560N-144BMH-DG
Maximum Power - Pmax (W)	575	570	565	560
Open Circuit Voltage - Voc (V)	51.26	51.07	50.87	50.67
Short Circuit Current - Isc (A)	14.31	14.25	14.19	14.13
Maximum Power Voltage - Vmpp (V)	42.53	42.34	42.14	41.95
Maximum Power Current - Impp (A)	13.54	13.48	13.41	13.34
Module Efficiency	22.26%	22.07%	21.87%	21.68%

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 570 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
599	51.07	14.96	42.34	14.15	5%
628	51.07	15.68	42.34	14.83	10%
684	51.11	17.10	42.29	16.18	20%
713	51.11	17.81	42.29	16.85	25%

Material Characteristics

Dimensions	2278×1134×35mm (L×W×H)
Weight	32.7kg
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	12×12 pieces bifacial 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
Bifaciality	80%±5%

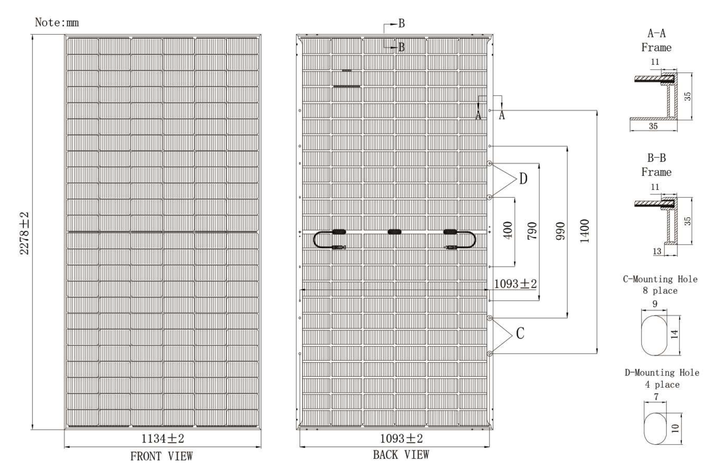
Packaging

Dimensions(L×W×H)	2310×1125×1253mm
Container 20'	150
Container 40'	300
Container 40'HC	600 or 540 for US

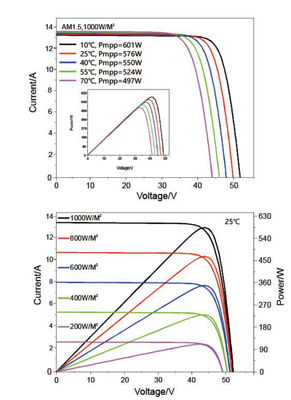
System Design

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

Dimensions



IV-Curves



Excellent performance under weak light condition.