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
- 0~3% 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

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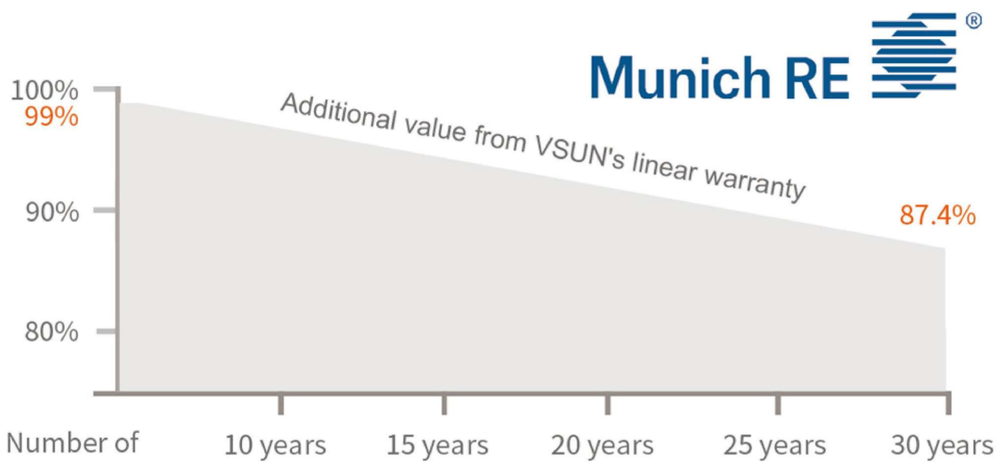


## Electrical Characteristics at Standard Test Conditions(STC)

| 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% |

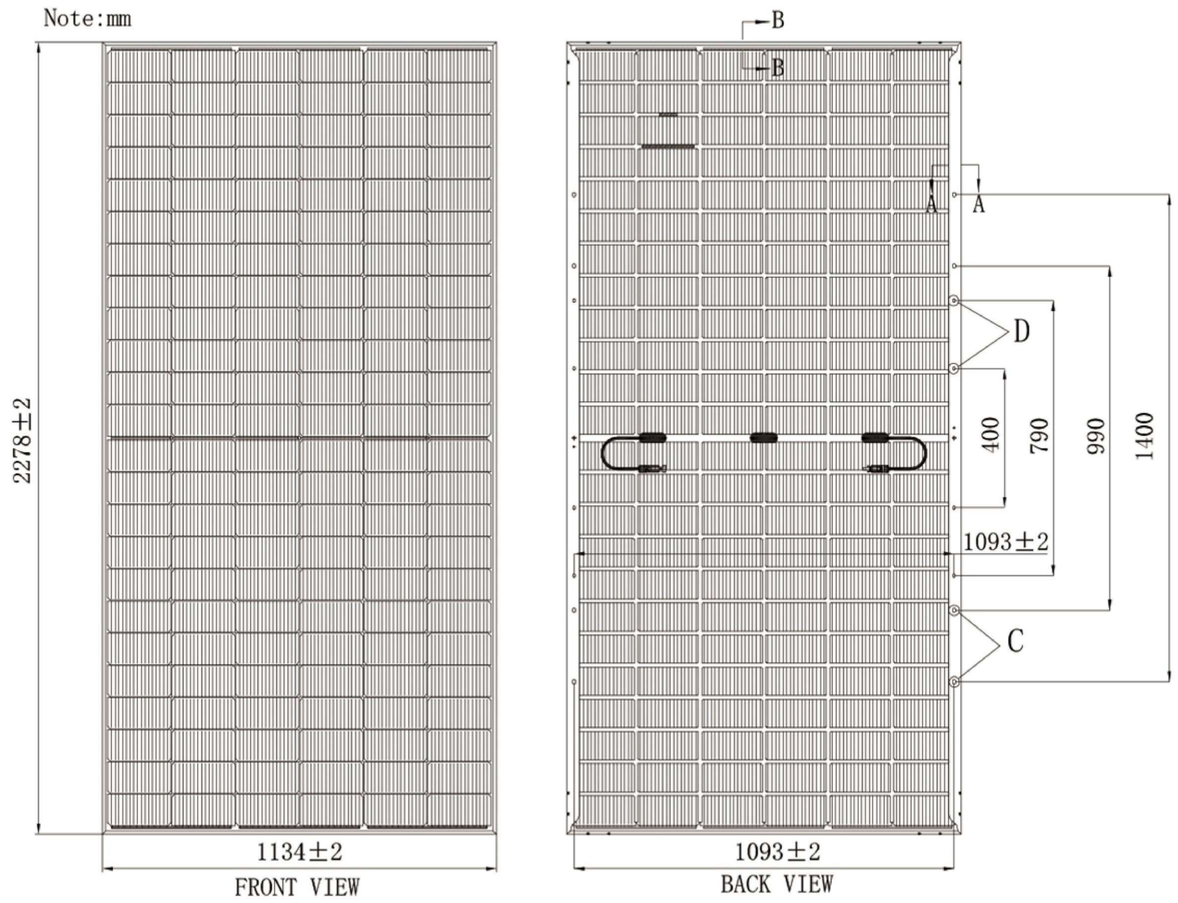
## Packaging

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

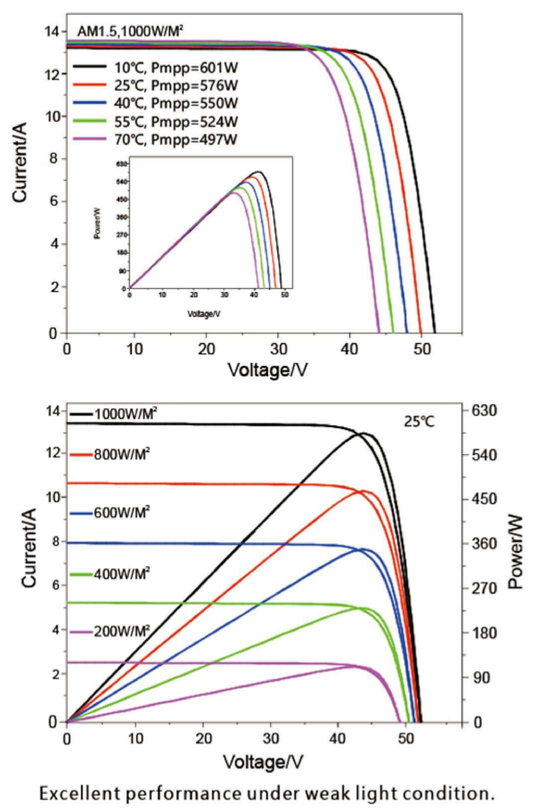
## System Design

| | |
|---|---|
| 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.