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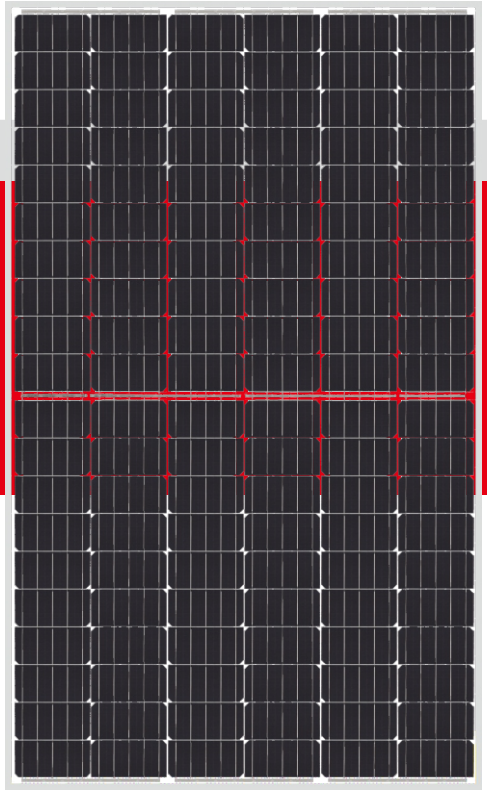
# Solar Panel Guide
# Specification Data Sheet

## VSUN SOLAR
## VSUN335-120BMH-DG
## VSUN335-120BMH-DG

Also available on the web at
EnergyPal.com/vsun-solar-solar-panels/vsun335-120bmh-dg

# VSUN

Innovative & Smart



# VSUN335-120BMH-DG

## The Half Cell Module

**VSUN335-120BMH-DG VSUN330-120BMH-DG**
**VSUN325-120BMH-DG VSUN320-120BMH-DG**

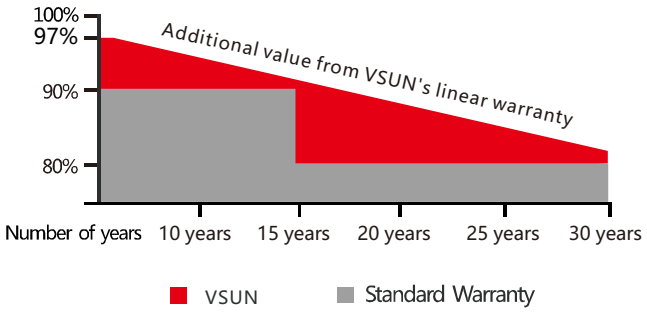
**19.58%**
Module efficiency

**12years**
Material & Workmanship warranty

**335W**
Highest power output

**30years**
Linear power output warranty

- P-type PERC bifacial cell technology
- Up to 30% more enegy yield due to the back side power generation
- Low LCOE
- Lower risk of hot spot
- Better shading tolerance
- Minimize micro-crack and free of snail trails
- Outstanding temperature coefficient
- Excellent performance under low light conditions
- Higher output power




Munich RE

- 12-year product warranty
- 30-year linear power output warranty

Invested by Fuji Solar, VSUN is a Japanese solar module solutions provider located in Tokyo that offers Japanese quality solar technologies globally. The group's business started in Japan in 2006, later spreading to North America, Southeast Asia, and EMEA.

Innovative & Smart – VSUN has been committed to providing greener, cleaner, and more intelligent renewable energy solutions. It is focusing on the new energy market and the development of customized and high-efficiency products.

Note:

All information and data are subject to change without notice.


A Sub-company of FUJI SOLAR

Engineered in Japan
vsun@vietnamsunergy.com
www.vsun-solar.com

## Electrical Characteristics at Standard Test Conditions(STC)

| Module Type | VSUN335-120BMH-DG | VSUN330-120BMH-DG | VSUN325-120BMH-DG | VSUN320-120BMH-DG |
|---|---|---|---|---|
| Maximum Power - Pmax (W) | 335 | 330 | 325 | 320 |
| Open Circuit Voltage - Voc (V) | 40.9 | 40.7 | 40.5 | 40.3 |
| Short Circuit Current - Isc (A) | 10.45 | 10.37 | 10.28 | 10.19 |
| Maximum Power Voltage - Vmpp (V) | 33.6 | 33.4 | 33.2 | 32.9 |
| Maximum Power Current - Impp (A) | 9.98 | 9.89 | 9.8 | 9.74 |
| Module Efficiency | 19.58% | 19.29% | 19.00% | 18.70% |

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1,5; module temperature 25°C. Tolerance of Pmpp: 0~+3%.

Measuring uncertainty of power: ±3%.

## Electrical Characteristics with different rear side power gain(reference to 330 front)

| Pmax (W) | Voc (V) | Isc (A) | Vmpp (V) | Impp (A) | Pmax gain |
|---|---|---|---|---|---|
| 347 | 40.70 | 10.89 | 33.40 | 10.38 | 5% |
| 364 | 40.70 | 11.41 | 33.40 | 10.88 | 10% |
| 396 | 40.80 | 12.44 | 33.30 | 11.87 | 20% |
| 412 | 40.80 | 12.96 | 33.30 | 12.36 | 25% |

## Temperature Characteristics

| | |
|---|---|
| NOCT | 45°C(±2°C) |
| Voltage Temperature Coefficient | -0.28%/°C |
| Current Temperature Coefficient | +0.0449%/°C |
| Power Temperature Coefficient | -0.367%/°C |

## Maximum Ratings

| | |
|---|---|
| Maximum System Voltage [V] | 1000/1500 |
| Series Fuse Rating [A] | 20 |
| Bifaciality | 70%±5% |

## Material Characteristics

| | |
|---|---|
| Dimensions | 1704×1004×35mm (L×W×H) |
| Weight | 21.7kg |
| Frame | Silver anodized aluminum profile |
| Front Glass | High transparency,Antireflection coated,Semi-toughened safety glass,2.0mm |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Glass | Semi-toughened safety glass,2.0mm |
| Cells | 6×10 pieces bifacial monocrystalline solar cells series strings |
| Junction Box | Rated current≧13A, IP≧67 |
| Cable&Connector | Length 500 mm, 1×4 mm2, compatible with MC4 |

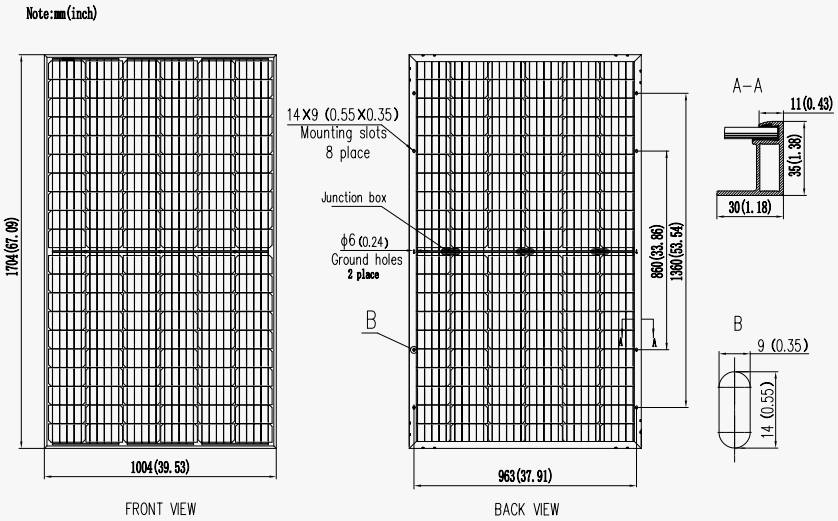
## Packaging

| | |
|---|---|
| Dimensions(L×W×H) | 1730×1110×1140mm |
| Container 20' | 360 |
| Container 40' | 780 |
| Container 40'HC | 845 |

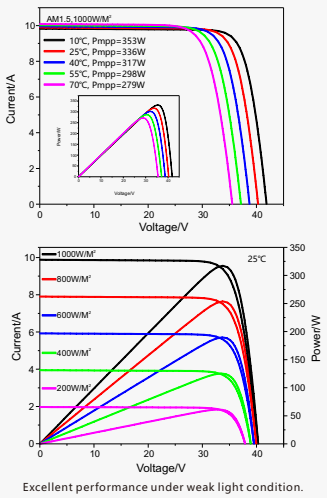
## System Design

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