

# Vesta Ultra Black

The ultra elegant black

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Innovative & Smart

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# Vesta Ultra Black

Vesta Ultra Black defines superior aesthetics modules in creating full-screen elegant rooftop.

VSUN provides customized products and services to support diversified installation solutions. Vesta Ultra Black meets the needs of scenarios, which brings excellent power generation performance. Vesta Ultra Black solar solutions meet household electricity needs and reduce high electricity bills.

**430W**

Highest power output

**80%**

Bifaciality

**22.02%**

Module efficiency

**-40°C+85°C**

Temperature range

## MBB TECHNOLOGY

With circular ribbon reduces current loss to improve efficiency and maximizing sunlight transmittance, long lasting protection in outdoor and perfect for home rooftop.

### MBB technology with circular ribbon

Reducing current loss to improve efficiency

### Anti-reflective coating glass

Maximizing sunlight transmittance

### Half-cell technology

Reducing cell damage and bringing higher output

### Bifacial cells

Converting more sunlight into electricity

### High-quality back sheet

Long lasting protection in outdoor and perfect for home rooftop

### Optimize degradation

Realize recycling and reuse to effectively alleviate the pressure on the ecological environment



# WHY GO SOLAR

## Low-Carbon Life

- Respond to the call for Net Zero
- Self-consumption new lifestyle

## Increase Your Home Value

- Homes with solar power are more attractive to buyers
- Sell faster and at a higher price

## Quality Assurance

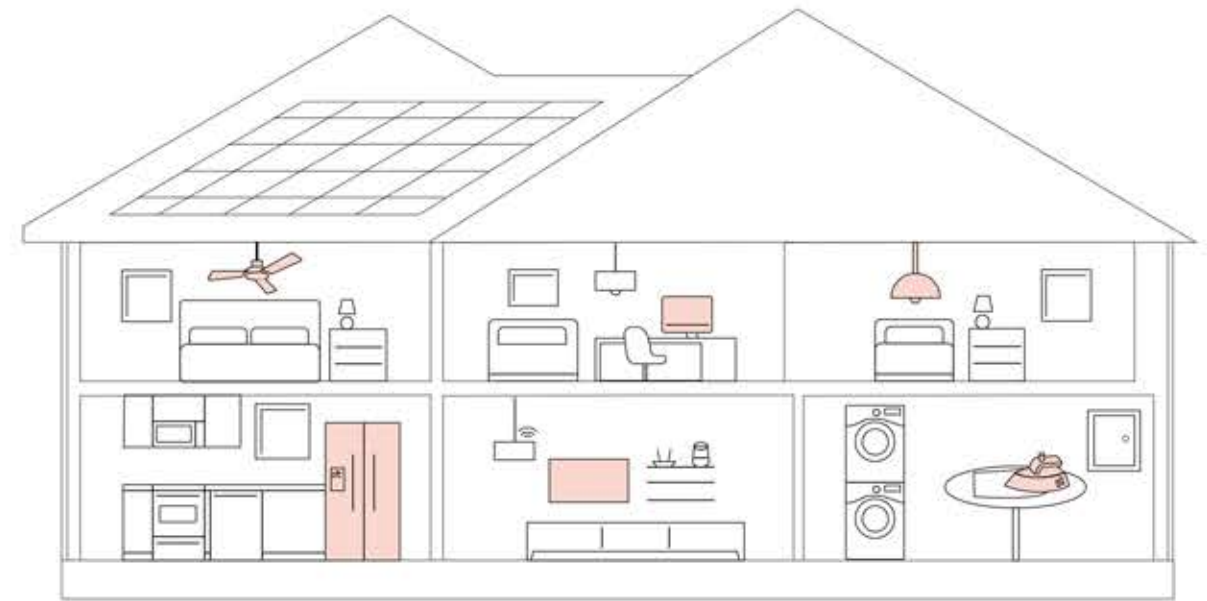
- Japanese Quality Control System
- One of the best warranties in the industry

## High Investment Return

- Increase the property value
- Offset the utility bill

# Home Energy Mix with a Solar System

**1KW** Load that would be MEL by  
Solar rooftop system with battery backup



**13 Hours Ceiling Fans**  
1 (75W)

**31 Hours Lighting**  
4 LED Lights (8w)

**6 Hours Refrigerator**  
1 (150W)

**1 Hours Iron**  
1 (1,000W)

**20 Hours Laptop**  
1 (50W)

**10 Hours TV**  
1 (100W)

\*Data of MEL is for reference only.



Home solar power 90%



Home solar 40%      Utility electricity 60%

\*VSUN solar modules can still provide excellent power performance even at low-light conditions, such as cloudy days morning or evening times.

# REASONS FOR CHOOSING VSUN SOLAR

## Engineered in Japan

Invested by Fuji solar, VSUN SOLAR is a solar solution provider headquartered in Japan, providing high-efficiency solar panels and technologies Worldwide—listed as BNEF Tier 1 Manufacturer.

## Global Supply Chain

VSUN has always adhered to the global supply chain system selecting excellent and reliable suppliers in the local and global supply chains, strengthening the cooperative relationship with suppliers and constantly optimizing the supplier management system to deliver optimal customer experience.

## Customized Service

Based requirement of project and service scope, VSUN provides customized service and improve comprehensive customer satisfaction, including customized product ,solution of modules installation, packaging guideline, logistics solution and different application.

## 30-year Warranty Promise

VSUN provides one of the best warranties in the solar industry,VSUN provides 12-year product warranty & 30-year liner power output warranty with Munich RE reinsurance. Product warranty could be extended to 25-year according to customers needs.

# ROOFTOP PROJECTS



# WARRANTY

## Product Warranty

VSUN ensures product quality at every step, which allows to provide one of the best warranties in the solar industry. With the Japanese quality control system, VSUN solar panels have low degradation rate, long duration and high reliability.

## Performance Warranty

With Munich Re reinsurance  
12-year  
product warranty  
30-year  
Linear power output warranty.



The annual degradation is  
-0.45% for PERC, while only  
-0.4% for TopCon till the 30th year.

Module failure rate is less than **0.01%**  
Simplified claims process.

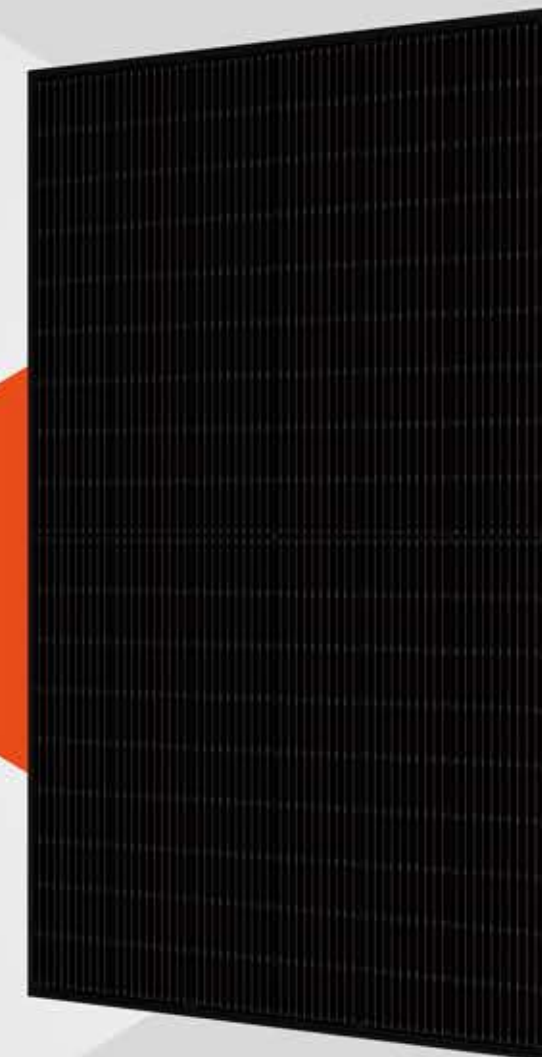
# INSURANCE

An Independent Quality Insurance is Provided by



The Corporate Insurance Partner\* Munich Re, offers risk management solutions on a global basis, to deliver better planning security for customers.

\*Founded in Germany in 1880, the Munich Reinsurance Group is one of the largest risk management entities, primarily engaged in reinsurance and healthcare asset management.



**12**  
YEAR  
QUALITY ASSURANCE

**30**  
YEAR  
POWER OUTPUT GUARANTEE

**VSUN430N-108BMH-DG**

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

**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".

**PRODUCT CERTIFICATION**



**WARRANTY**



**KEY FEATURES**

**TOPcon** 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
- Excellent PID Resistance
- Lower LCOE

**12**  
YEAR  
QUALITY ASSURANCE

**30**  
YEAR  
POWER OUTPUT GUARANTEE

**VSUN405-108BMH**

VSUN405-108BMH VSUN400-108BMH  
VSUN395-108BMH VSUN390-108BMH

**405W**  
Highest power output

**20.74%**  
Module efficiency

**2.0%**  
First-year degradation warranty

**0.45%**  
Annual degradation over 30 years

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**PRODUCT CERTIFICATION**



**WARRANTY**



**KEY FEATURES**

**PERC** MBB technology with Circular Ribbon

- Higher output power
- Half-cell Technology
- Positive tolerance offer
- Bifacial cells, converting more sunlight into electricity
- Better shading tolerance
- Certified for salt/ammonia corrosion resistance
- Load certificates: wind to 2400Pa and snow to 5400Pa
- Lower LCOE