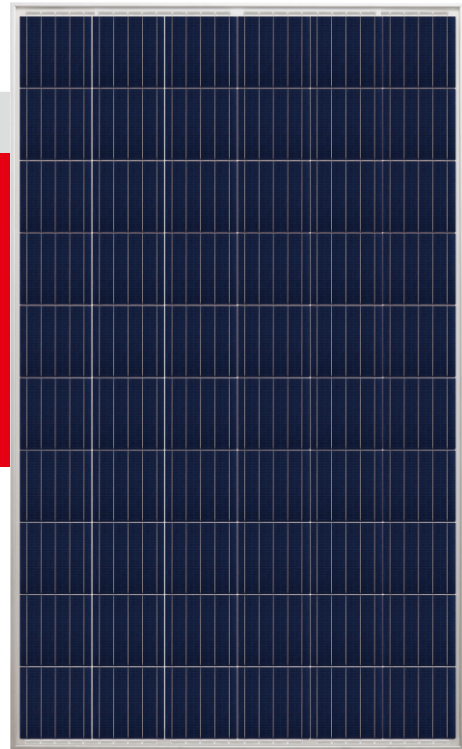


VSUN

Innovative & Smart



VSUN295-60P

VSUN295-60P VSUN290-60P
VSUN285-60P VSUN280-60P
VSUN275-60P

18.17%

Module efficiency

12years

Material & Workmanship warranty

295W

Highest power output

25years

Linear power output warranty



PID-free



World class poly efficiency



Tighter product performance distribution and current sorting reduces the mismatch power loss in system operation



Positive tolerance offer



Good temperature coefficient enables higher output in high temperature regions



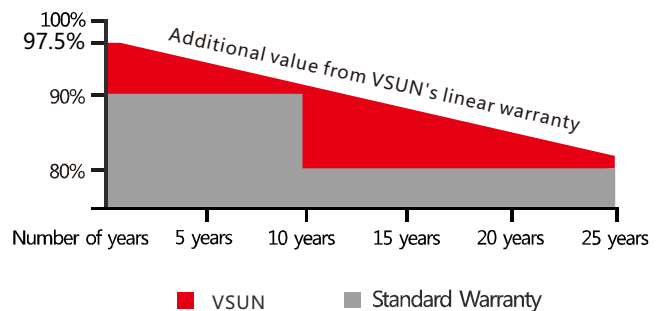
Excellent performance under low light conditions



Certified for salt/ammonia corrosion resistance



Load certificates: wind to 2400Pa and snow to 5400Pa



Munich RE  **-12-year product warranty**
-25-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:

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A Sub-company of **FUJISOLAR**



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Electrical Characteristics at Standard Test Conditions(STC)

| Module Type | VSUN295-60P | VSUN290-60P | VSUN285-60P | VSUN280-60P | VSUN275-60P |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|
| Maximum Power - Pmax (W) | 295 | 290 | 285 | 280 | 275 |
| Open Circuit Voltage - Voc (V) | 38.8 | 38.7 | 38.6 | 38.5 | 38.4 |
| Short Circuit Current - Isc (A) | 9.64 | 9.56 | 9.49 | 9.36 | 9.27 |
| Maximum Power Voltage - Vmpp (V) | 32.1 | 31.8 | 31.6 | 31.4 | 31.3 |
| Maximum Power Current - Imp (A) | 9.19 | 9.12 | 9.02 | 8.91 | 8.79 |
| Module Efficiency | 18.17% | 17.86% | 17.55% | 17.25% | 16.94% |

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1.5; Cell 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 | VSUN295-60P | VSUN290-60P | VSUN285-60P | VSUN280-60P | VSUN275-60P |
|----------------------------------|-------------|-------------|-------------|-------------|-------------|
| Maximum Power - Pmax (W) | 216.9 | 213.5 | 210.1 | 206.2 | 202.7 |
| Open Circuit Voltage - Voc (V) | 35.8 | 35.7 | 35.6 | 35.5 | 35.6 |
| Short Circuit Current - Isc (A) | 7.78 | 7.72 | 7.66 | 7.56 | 7.48 |
| Maximum Power Voltage - Vmpp (V) | 29.6 | 29.4 | 29.2 | 29.1 | 28.9 |
| Maximum Power Current - Imp (A) | 7.33 | 7.26 | 7.2 | 7.09 | 7.01 |

Normal Operating Cell Temperature(NOCT) : irradiance 800W/m²; wind speed 1 m/s, ambient temperature 20°C. Measuring Tolerance: ±3%.

Temperature Characteristics

| | |
|---------------------------------|---------------|
| NOCT | 45°C (±2°C) |
| Voltage Temperature Coefficient | -0.292%/°C |
| Current Temperature Coefficient | +0.045%/°C |
| Power Temperature Coefficient | -0.408%/°C |

Maximum Ratings

| | |
|----------------------------|------|
| Maximum System Voltage [V] | 1000 |
| Series Fuse Rating [A] | 20 |

Material Characteristics

| | |
|--------------------|--|
| Dimensions | 1640×990×35mm (L×W×H) |
| Weight | 18.3kg |
| Frame | Anodized aluminum profile |
| Front Glass | White toughened safety glass, 3.2 mm |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Glass | Composite film |
| Cells | 6×10 pieces polycrystalline solar cells series strings (156.75mm×156.75mm) |
| Junction Box | IP≥67, 3 diodes |
| Cable&Connector | Length 900 mm, 1×4 mm ² , compatible with MC4 |

Packaging

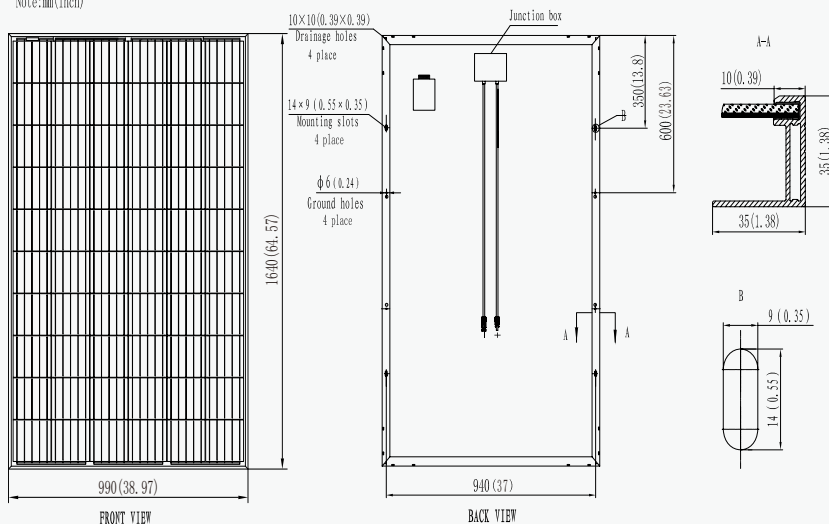
| | |
|-------------------|------------------|
| Dimensions(L×W×H) | 1680×1110×1120mm |
| Container 20' | 360 |
| Container 40' | 840 |
| Container 40'HC | 910 |

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

Note:mm(inch)



IV-Curves

