

VSUN505-132MH

505W

Highest power output

21.50%

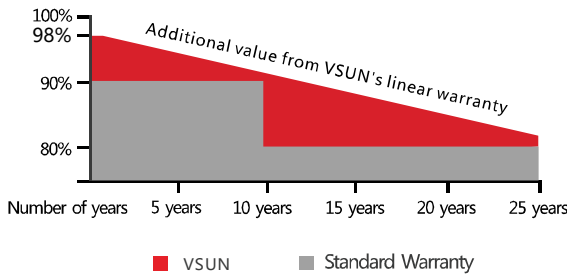
Module efficiency

12years

Material & Workmanship warranty

25years

Linear power output warranty



Munich RE



PERC cell technology



Higher output power



Lower risk of micro-crack



Positive tolerance offer



Lower risk of hot spot



Better shading tolerance



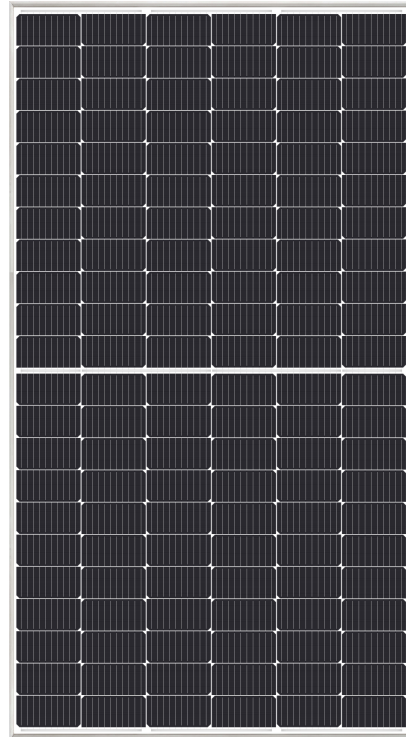
Certified for salt/ammonia corrosion resistance



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



Lower LCOE



VSUN505-132MH
VSUN495-132MH

VSUN500-132MH
VSUN490-132MH

VSUN, a BNEF Tier-1 PV module manufacturer invested by Fuji Solar, has been committed to providing greener, cleaner and more intelligent renewable energy solutions. VSUN is dedicated to bringing reliable, customized and high-efficient products into various markets and customers worldwide



Engineered in Japan
www.vsun-solar.com

Electrical Characteristics at Standard Test Conditions(STC)

| Module Type | VSUN505-132MH | VSUN500-132MH | VSUN495-132MH | VSUN490-132MH |
|----------------------------------|---------------|---------------|---------------|---------------|
| Maximum Power - Pmax (W) | 505 | 500 | 495 | 490 |
| Open Circuit Voltage - Voc (V) | 45.6 | 45.4 | 45.2 | 45 |
| Short Circuit Current - Isc (A) | 14 | 13.93 | 13.85 | 13.78 |
| Maximum Power Voltage - Vmpp (V) | 38.6 | 38.4 | 38.2 | 38 |
| Maximum Power Current - Imp (A) | 13.09 | 13.03 | 12.96 | 12.9 |
| Module Efficiency | 21.50% | 21.29% | 21.08% | 20.86% |

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 at Normal Operating Cell Temperature(NOCT)

| Module Type | VSUN505-132MH | VSUN500-132MH | VSUN495-132MH | VSUN490-132MH |
|----------------------------------|---------------|---------------|---------------|---------------|
| Maximum Power - Pmax (W) | 379 | 375.2 | 371.1 | 367.4 |
| Open Circuit Voltage - Voc (V) | 42.7 | 42.6 | 42.4 | 42.2 |
| Short Circuit Current - Isc (A) | 11.31 | 11.25 | 11.19 | 11.13 |
| Maximum Power Voltage - Vmpp (V) | 35.4 | 35.3 | 35.1 | 34.9 |
| Maximum Power Current - Imp (A) | 10.7 | 10.64 | 10.58 | 10.52 |

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 | -0.27%/°C |
| Current Temperature Coefficient | +0.048%/°C |
| Power Temperature Coefficient | -0.32%/°C |

Maximum Ratings

| | |
|----------------------------|------|
| Maximum System Voltage [V] | 1500 |
| Series Fuse Rating [A] | 30 |

Material Characteristics

| | |
|--------------------|--|
| Dimensions | 2073×1133×35mm (L×W×H) |
| Weight | 26.2kg |
| Frame | Silver anodized aluminum profile |
| Front Glass | White toughened safety glass, 3.2 mm |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Sheet | Composite film |
| Cells | 12×11 pieces monocrystalline solar cells series strings |
| Junction Box | IP68, 3 diodes |
| Cable&Connector | Potrait: 500 mm (cable length can be customized) , 1×4 mm ² , compatible with MC4 |

Packaging

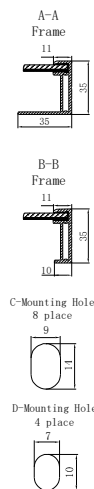
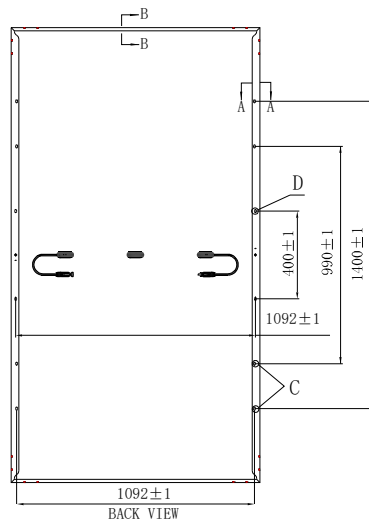
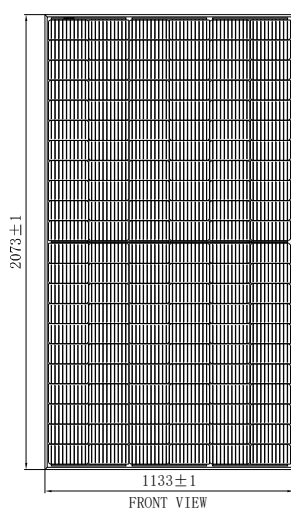
| | |
|-------------------|------------------|
| Dimensions(L×W×H) | 2120×1125×1253mm |
| Container20' | 155 |
| Container40' | 341 |
| Container40'HC | 682 |

System Design

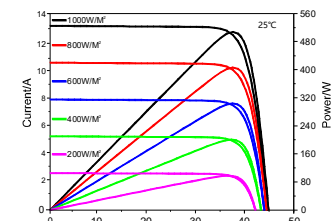
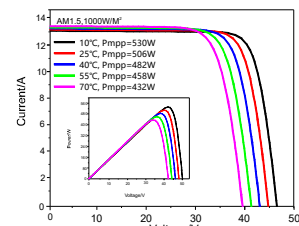
| | |
|----------------------|---|
| Temperature Range | -40 °C to + 85 °C |
| Withstanding Hail | Maximum diameter of 25 mm with impact speed of 23 m·s ⁻¹ |
| Maximum Surface Load | 5,400 Pa |
| Application class | class A |

Dimensions

Note:mm



IV-Curves



Excellent performance under weak light condition.