

VSUN500-132BMH

505W

Highest power output

21.27%

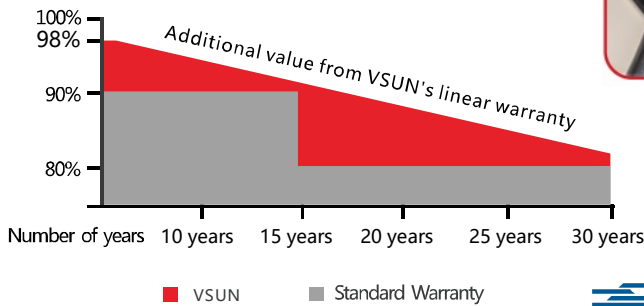
Module efficiency

25years

Material & Workmanship warranty

30years

Linear power output warranty



Integrated Wire Management



VSUN505-132BMH
VSUN495-132BMH

VSUN500-132BMH
VSUN490-132BMH

MBB technology with Circular Ribbon

Higher output power

Half-cell Technology

Positive tolerance offer

Lower risk of hot spot

Up to 30% extra power generation yield from the back side

Certified for salt/ammonia corrosion resistance

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

Lower LCOE

Munich RE

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

Electrical Characteristics at Standard Test Conditions(STC)

| Module Type | VSUN505-132BMH | VSUN500-132BMH | VSUN495-132BMH | VSUN490-132BMH |
|----------------------------------|----------------|----------------|----------------|----------------|
| 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 | 21.27% | 21.06% | 20.85% | 20.64% |

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 500 front)

| Pmax (W) | Voc (V) | Isc (A) | Vmpp (V) | Imp (A) | Pmax gain |
|----------|---------|---------|----------|---------|-----------|
| 525 | 45.4 | 14.63 | 38.4 | 13.68 | 5% |
| 550 | 45.4 | 15.32 | 38.4 | 14.33 | 10% |
| 599 | 45.5 | 16.72 | 38.3 | 15.64 | 20% |
| 624 | 45.5 | 17.41 | 38.3 | 16.29 | 25% |

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 |
| Bifaciality | 70%±10% |

Material Characteristics

| | |
|--------------------|--|
| Dimensions | 2094×1134×35mm (L×W×H) / 82.44 x 44.65 x 1.38 in |
| Weight | 26.3kg / 57.98lbs |
| Frame | Silver anodized aluminum profile |
| Front Glass | AR-Coating toughened glass, 3.2 mm |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) or POE |
| Back sheet | Transparent white mesh backsheet |
| Cells | 12×11 pieces bifacial monocrystalline solar cells series strings |
| Junction Box | IP68, 3 diodes |
| Cable&Connector | cable length 1900 mm , Staubli MC4 connector |

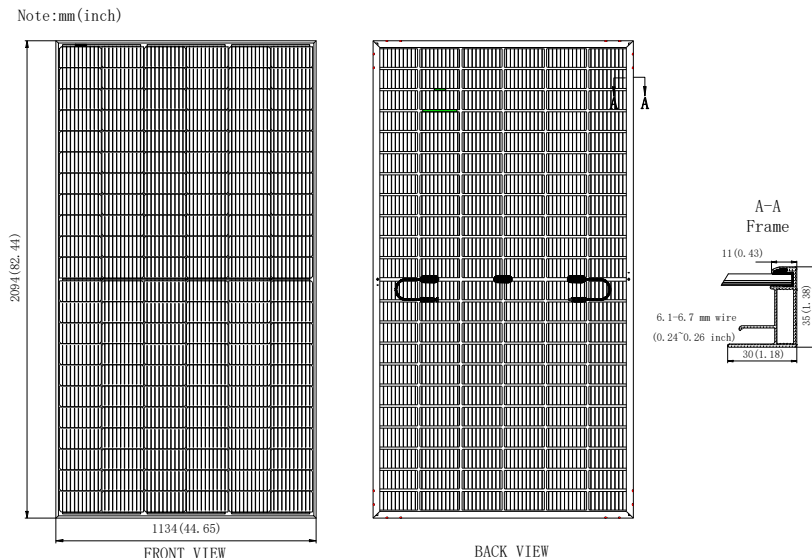
Packaging

| | |
|-------------------|--|
| Dimensions(L×W×H) | 2120×1125×1253mm 83.46x44.29x46.50 in |
| Container 20' | 155 |
| Container 40' | 341 |
| Container 40'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 |
| Maximum Surface Load | 5,400 Pa |
| Application class | class A |

Dimensions



IV-Curves

