

VSUN405-108M-BB

405W

Highest power output

20.75%

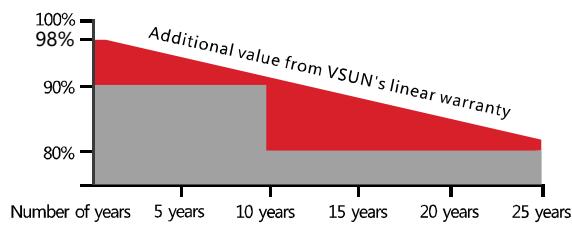
Module efficiency

12 years

Material & Workmanship warranty

25 years

Linear power output warranty



VSUN405-108M-BB

VSUN395-108M-BB

VSUN400-108M-BB

VSUN390-108M-BB



Micro Gap



Better shading tolerance



Certified for salt/ammonia corrosion resistance



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



Lower LCOE

Munich RE 



MBB technology with Circular Ribbon



Higher output power



Half-cell Technology



Positive tolerance offer

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 | VSUN405-108M-BB | VSUN400-108M-BB | VSUN395-108M-BB | VSUN390-108M-BB |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power - Pmax (W) | 405 | 400 | 395 | 390 |
| Open Circuit Voltage - Voc (V) | 37.36 | 37.2 | 37.03 | 36.84 |
| Short Circuit Current - Isc (A) | 13.78 | 13.68 | 13.59 | 13.5 |
| Maximum Power Voltage - Vmpp (V) | 31.36 | 31.17 | 31 | 30.82 |
| Maximum Power Current - Impp (A) | 12.92 | 12.84 | 12.75 | 12.66 |
| Module Efficiency | 20.75% | 20.49% | 20.23% | 19.98% |

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 | VSUN405-108M-BB | VSUN400-108M-BB | VSUN395-108M-BB | VSUN390-108M-BB |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|
| Maximum Power - Pmax (W) | 302.1 | 298.4 | 294.7 | 287.3 |
| Open Circuit Voltage - Voc (V) | 35.1 | 34.9 | 34.8 | 34.5 |
| Short Circuit Current - Isc (A) | 11.19 | 11.13 | 11.05 | 10.91 |
| Maximum Power Voltage - Vmpp (V) | 29.1 | 28.9 | 28.8 | 28.4 |
| Maximum Power Current - Impp (A) | 10.39 | 10.32 | 10.25 | 10.1 |

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

Temperature Characteristics

Maximum Ratings

| | | | |
|---------------------------------|-------------|----------------------------|------|
| NOCT | 45°C (±2°C) | Maximum System Voltage [V] | 1000 |
| Voltage Temperature Coefficient | -0.27%/°C | Series Fuse Rating [A] | 30 |
| Current Temperature Coefficient | +0.048%/°C | | |
| Power Temperature Coefficient | -0.32%/°C | | |

Material Characteristics

| | |
|--------------------|--|
| Dimensions | 1723×1133×35mm (L×W×H) |
| Weight | 21.8kg |
| Frame | Black anodized aluminum profile |
| Front Glass | White toughened safety glass, 3.2 mm |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Sheet | Composite film |
| Cells | 12×9 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

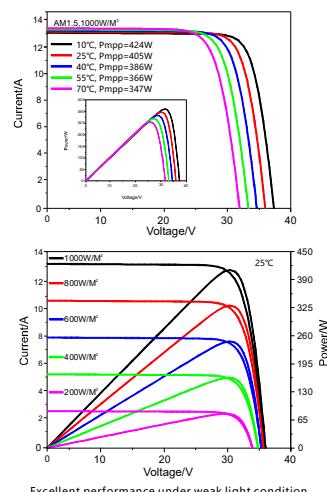
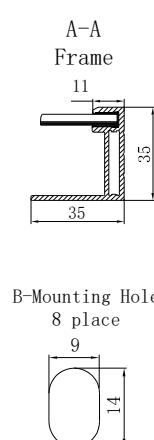
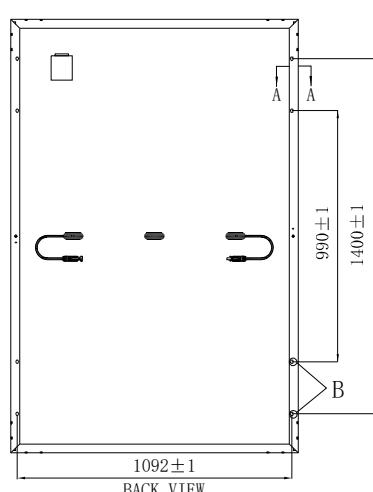
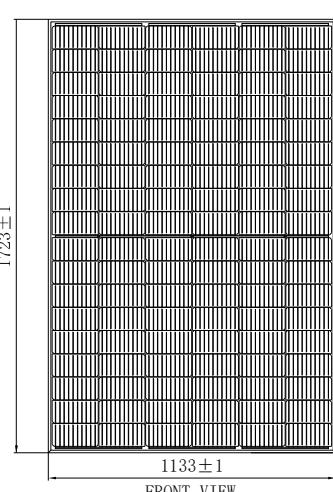
System Design

| | | | |
|-------------------|------------------|----------------------|---|
| Dimensions(L×W×H) | 1760×1125×1253mm | Temperature Range | -40 °C to + 85 °C |
| Container20' | 186 | Withstanding Hail | Maximum diameter of 25 mm with impact speed of 23 m·s⁻¹ |
| Container40' | 403 | Maximum Surface Load | 5,400 Pa |
| Container40'HC | 806 | Application class | class A |

Dimensions

IV-Curves

Note:mm



Excellent performance under weak light condition.