

# VSUN405-108BMH

**405W**

Highest power output

**20.75%**

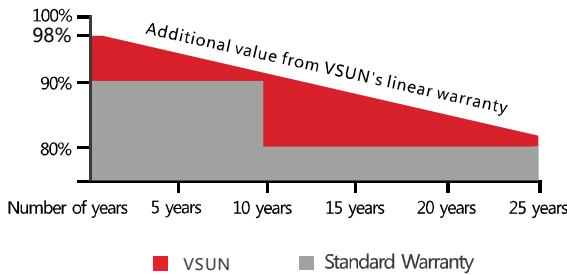
Module efficiency

**12years**

Material & Workmanship warranty

**25years**

Linear power output warranty



Munich RE



MBB technology with Circular Ribbon



Higher output power



Half-cell Technology



Positive tolerance offer



Micro Gap



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

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                      | VSUN405-108BMH | VSUN400-108BMH | VSUN395-108BMH | VSUN390-108BMH |
|----------------------------------|----------------|----------------|----------------|----------------|
| 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 - Imp (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/m<sup>2</sup>; 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 400 front)

| Pmax (W) | Voc (V) | Isc (A) | Vmpp (V) | Imp (A) | Pmax gain |
|----------|---------|---------|----------|---------|-----------|
| 420      | 37.1    | 14.36   | 31.17    | 13.48   | 5%        |
| 440      | 37.1    | 15.05   | 31.17    | 14.12   | 10%       |
| 479      | 37.2    | 16.42   | 31.12    | 15.41   | 20%       |
| 499      | 37.2    | 17.10   | 31.12    | 16.05   | 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         | 1723×1133×30mm (L×W×H)   |
| Weight             | 21.8kg   |
| Frame              | Anodized aluminum profile  |
| Front Glass        | White toughened safety glass, 3.2 mm   |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) or POE  |
| Back Sheet         | Transparent backsheets   |
| 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 <sup>2</sup> , compatible with MC4 |

## Packaging

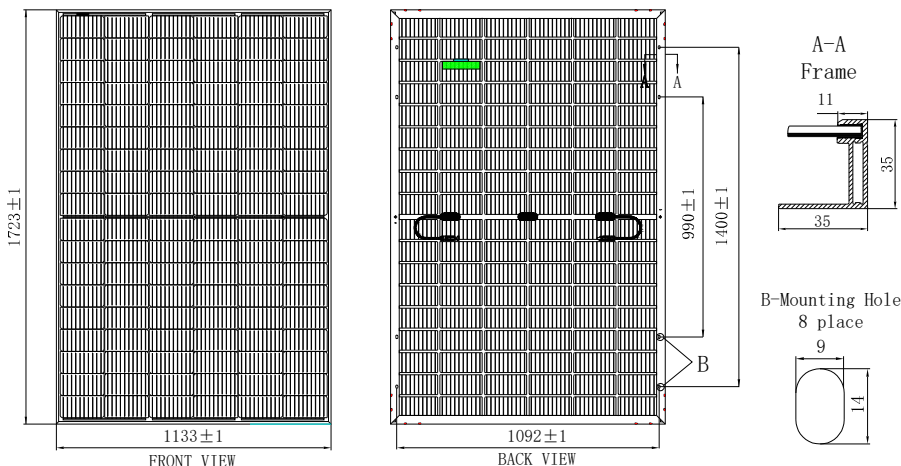
|                   |                  |
|-------------------|------------------|
| Dimensions(L×W×H) | 1760×1125×1253mm |
| Container 20'     | 186              |
| Container 40'     | 403              |
| Container 40'HC   | 806              |

## 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



## IV-Curves

