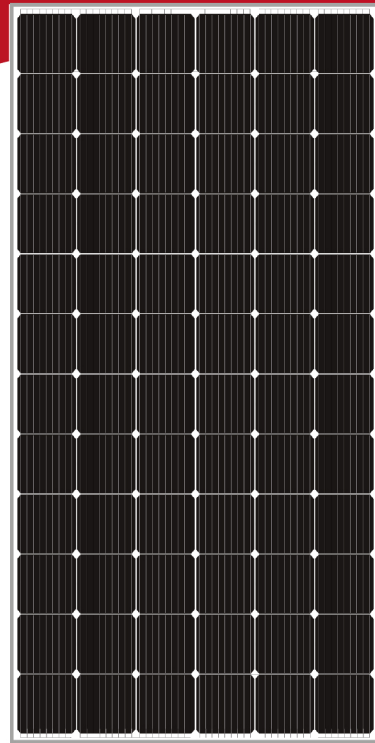


# AMSO SOLAR

## 9BB MONO 420-450W

solar panel with 72 cells 166MM solar cells



### Product Advantage

**9 Busbar Solar Cell** (166\*166mm)  
9busbar solar cell adopts new technology to improve the efficiency of modules

**High Voltage**  
UL and IEC 1500V certified;  
lowers BOS costs and yields better LCOE

**High Efficiency**  
Higher module conversion efficiency (up to 20.37%) benefit from half cell structure (low resistance characteristic).

**Low-light Performance**  
Advanced glass and cell surface textured design ensure excellent performance in low-light environment.

**Durability Against Extreme Environmental Conditions**  
High salt mist and ammonia resistance certified by TUV NORD.

**Severe Weather Resilience**  
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

### Key Features

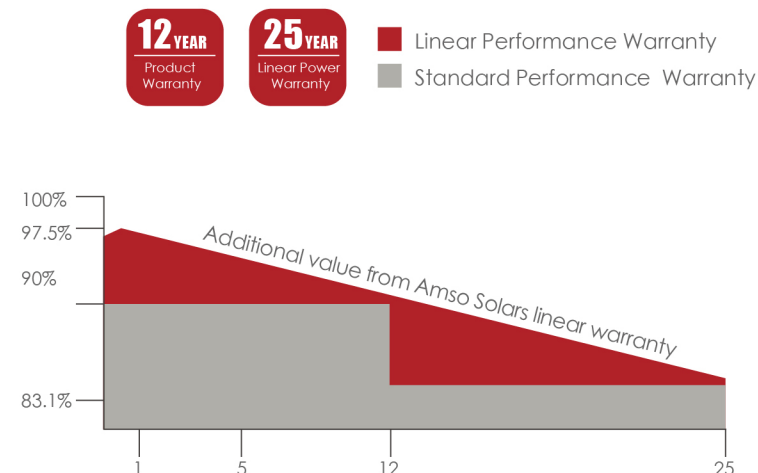
- Using high efficiency solar cells
- High quality junction box and connector systems
- 100% inspection to guarantee the reliability of solar systems



### Technology

- Excellent performance in low-light environment
- High transmissivity, low-iron tempered glass

### Linear performance warranty



### Mono Crystalline Essential Parameter

| Model Type | Power(w) | Number of Cells | Dimensions(MM) | Weight(KG) | Vmp(v) | Imp (A) | Voc(v) | Isc(A) | Module Efficiency |
|------------|----------|-----------------|----------------|------------|--------|---------|--------|--------|-------------------|
| AS420-72   | 420      | 72 (6*12)       | 2060*1038*35   | 24         | 40.9   | 10.27   | 48.3   | 11.75  | 19.6%             |
| AS425-72   | 425      | 72 (6*12)       | 2060*1038*35   | 24         | 41.3   | 10.29   | 48.5   | 11.83  | 19.8%             |
| AS430-72   | 430      | 72 (6*12)       | 2060*1038*35   | 24         | 41.6   | 10.34   | 48.7   | 11.94  | 20.1%             |
| AS435-72   | 435      | 72 (6*12)       | 2060*1038*35   | 24         | 41.8   | 10.40   | 48.8   | 12.04  | 20.3%             |
| AS440-72   | 440      | 72 (6*12)       | 2060*1038*35   | 24         | 42.3   | 10.42   | 49.0   | 12.13  | 20.5%             |
| AS445-72   | 445      | 72 (6*12)       | 2060*1038*35   | 24         | 42.6   | 10.46   | 49.3   | 12.19  | 20.8%             |
| AS450-72   | 450      | 72 (6*12)       | 2060*1038*35   | 24         | 42.7   | 10.54   | 49.5   | 12.29  | 21.0%             |

### Temperature Rating

|                                               |          |
|-----------------------------------------------|----------|
| Rated battery operating temperature           | 45±2℃    |
| Maximum power temperature coefficient         | -0.4%/℃  |
| Open circuit voltage temperature coefficient  | -0.29%/℃ |
| Short circuit current temperature coefficient | -0.05%/℃ |

### Limit parameter

|                            |              |
|----------------------------|--------------|
| Operating temperature      | -40-+85℃     |
| Maximum system voltage     | 1000/1500VDC |
| Maximum fuse rated current | 25A          |

\*Standard test conditions:measured values(atmospheric mass AM.5,irradiance 1000W/m2,battery temperature 25℃)

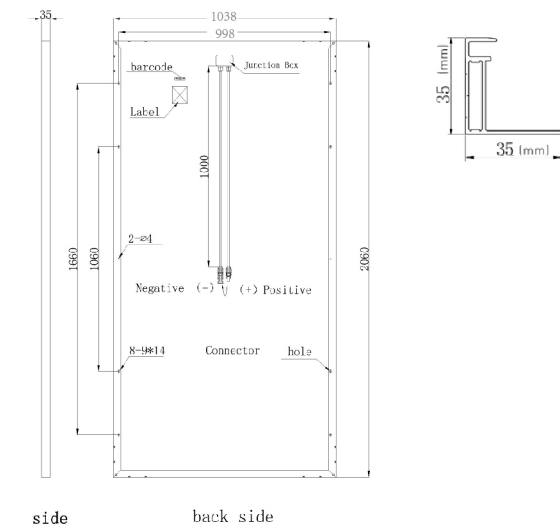
### Mechanical Characteristics

|              |                            |
|--------------|----------------------------|
| Front        | Glass 3.2mm tempered glass |
| Frame        | Anodized aluminium alloy   |
| Junction Box | IP68 rated                 |
| Connectors   | MC4 compatible             |

### Packing Configuration

|                       |       |       |
|-----------------------|-------|-------|
| Container             | 20'GP | 40'GP |
| Pieces per pallet     |       | 30&34 |
| Pallets per container |       | 22    |
| Pieces per container  | 300   | 720   |

### Mechanical Drawings



📍 Address: Rm 1603, 99 Zhongshan Rd, Nanjing, China

☎ Tel: 0086-025-85562529  
Mobile Phone: 0086-13814007208

✉ E-mail: info@amsosolar.com



<https://www.amsosolar.com/>