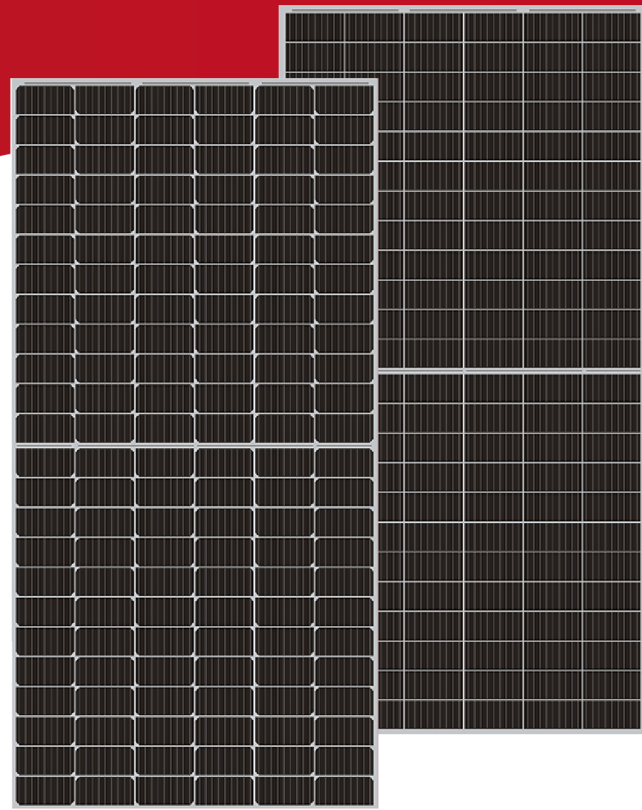


# AMSO SOLAR

## 9BB MONO 420-450W

solar panel with 144 cells 166MM solar cells



### Product Advantage



**9 Busbar Solar Cell** (166\*83mm)  
9 busbar 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



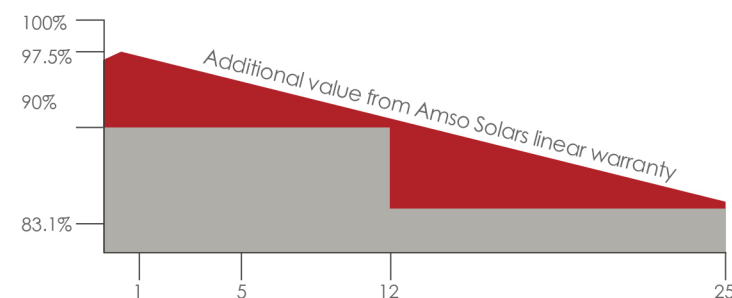
### Technology

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

### Linear performance warranty



■ Linear Performance Warranty  
■ Standard 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
AS420S7-144	420	144 (6*24)	2115*1052*35	25	40.59	10.35	48.27	10.97	18.9%
AS425S7-144	425	144 (6*24)	2115*1052*35	25	40.61	10.47	48.46	11.18	19.1%
AS430S7-144	430	144 (6*24)	2115*1052*35	25	40.72	10.56	48.65	11.49	19.3%
AS435S7-144	435	144 (6*24)	2115*1052*35	25	40.88	10.64	48.84	11.57	19.6%
AS440S7-144	440	144 (6*24)	2115*1052*35	25	41.08	10.71	49.05	11.64	19.8%
AS445S7-144	445	144 (6*24)	2115*1052*35	25	41.28	10.78	49.28	11.71	20.0%
AS450S7-144	450	144 (6*24)	2115*1052*35	25	41.47	10.85	49.51	11.78	20.2%

### 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

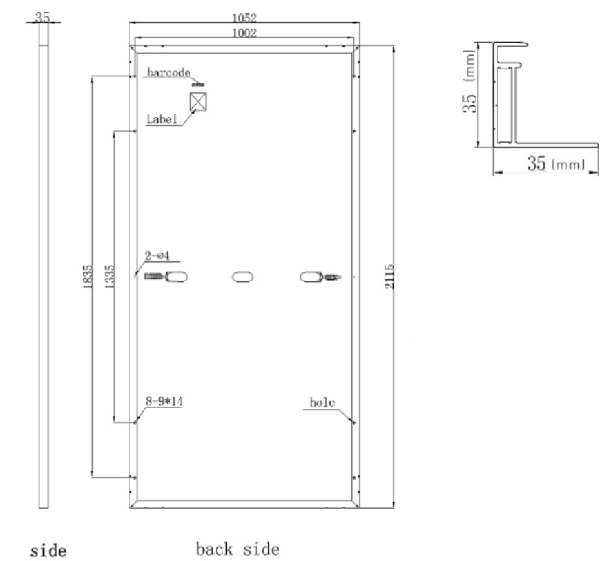
Operating temperature	-40~+85℃
Maximum system voltage	1000/1500VDC
Maximum fuse rated current	15A

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

### Mechanical Characteristics

Front	Glass 3.2mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67/IP68 rated
Connectors	MC4 compatible

### Mechanical Drawings



### Packing Configuration

Container	20' GP	40' GP
Pieces per pallet	30	30&34
Pallets per container	10	22
Pieces per container	286	704

📍 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/>