

# AMSO SOLAR

## 650—700W

solar panel with 132 cells 210MM solar cells



### Product Feature



#### M Busbar Solar Cell

M 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



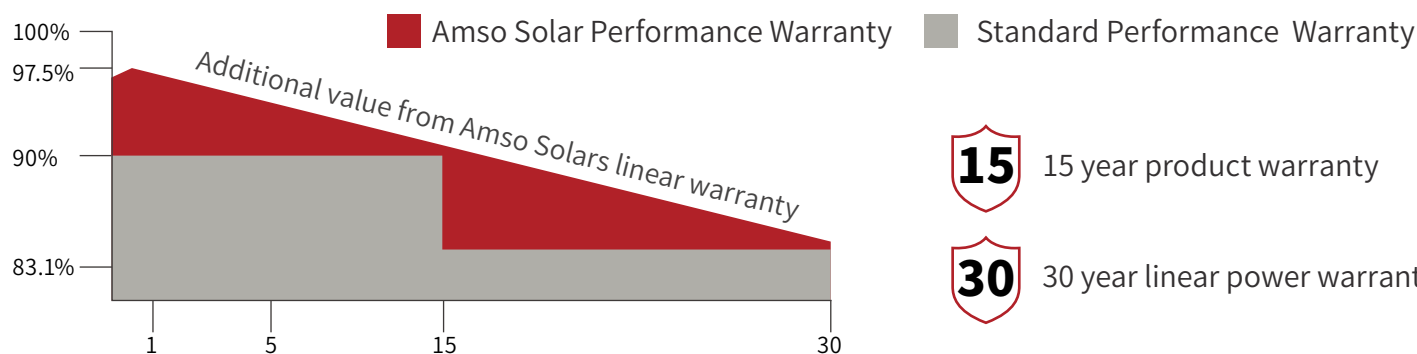
#### Durability of extreme conditions

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).



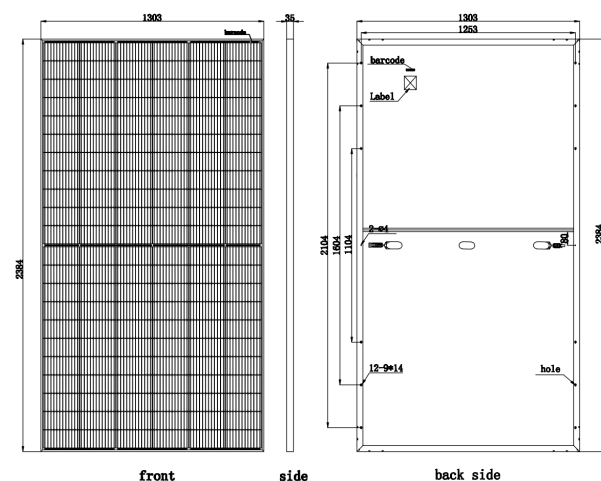
## Mono Crystalline Essential Parameter (STC 1000W/M<sup>2</sup> Cell Temperature 25°C AM=1.5)

Model Type	AS650S9	AS660S9	AS670S9	AS680S9	AS690S9	AS700S9
Power(w)	650	660	670	680	690	700
Number of Cells	132 (6*22)	132 (6*22)	132 (6*22)	132 (6*22)	132 (6*22)	132 (6*22)
Dimensions(MM)	2384*1303*35	2384*1303*35	2384*1303*35	2384*1303*35	2384*1303*35	2384*1303*35
Weight(KG)	34.5	34.5	34.5	34.5	34.5	34.5
Vmp(v)	37.9	38.0	38.1	38.2	38.3	38.4
Imp (A)	17.15	17.37	17.59	17.80	18.02	18.23
Voc(v)	45.5	45.6	45.7	45.8	45.9	46.0
Isc(A)	18.32	18.32	18.33	18.56	18.79	19.02
Module Efficiency	20.9%	21.2%	21.6%	21.9%	22.2%	22.5%

## Mono Crystalline Essential Parameter (NOCT 800W/M<sup>2</sup> Ambient Temperature 20°C AM=1.5)

Model Type	AS650S9	AS660S9	AS670S9	AS680S9	AS690S9	AS700S9
Power(w)	499.35	507.04	514.72	522.40	530.08	537.76
Number of Cells	132 (6*22)	132 (6*22)	132 (6*22)	132 (6*22)	132 (6*22)	132 (6*22)
Dimensions(MM)	2384*1303*35	2384*1303*35	2384*1303*35	2384*1303*35	2384*1303*35	2384*1303*35
Weight(KG)	34.5	34.5	34.5	34.5	34.5	34.5
Vmp(v)	34.55	34.64	34.73	34.82	34.91	35.01
Imp (A)	14.45	14.64	14.82	15.00	15.18	15.36
Voc(v)	42.01	42.11	42.20	42.29	42.38	42.48
Isc(A)	15.57	15.57	15.58	15.78	15.97	16.17
Module Efficiency	20.9%	21.2%	21.6%	21.9%	22.2%	22.5%

## Mechanical Drawings



## Temperature Rating

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

## Limit parameter

Operating temperature	-40~+85°C
Maximum system voltage	1000/1500VDC
Maximum fuse rated current	30A

## Mechanical Characteristics

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

## Packing Configuration

Container	40GP
Pieces per pallet	31
Pallets per container	18
Pieces per container	558

## CONTACT INFORMATION

Address: Rm 1603, 99 Zhongshan Rd, Nanjing, China  
Tel: 0086-025-85562529

E-mail: [info@amsosolar.com](mailto:info@amsosolar.com)  
Mobile Phone: 0086-13814007208

**CONTACT US!**