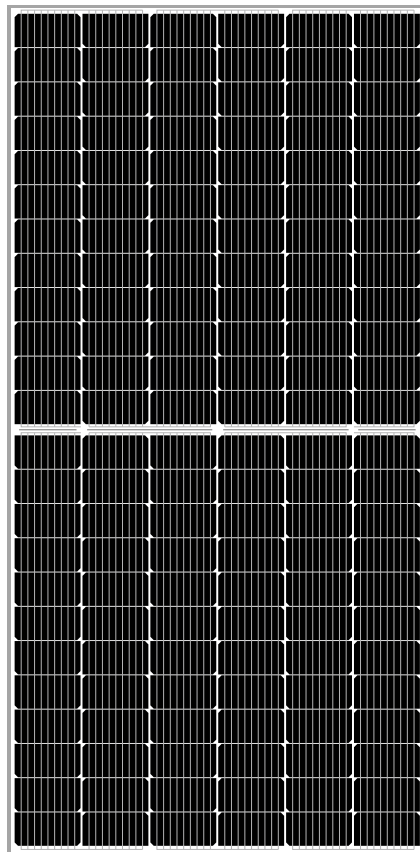


# AMSO SOLAR

420—460W

Solar panel with 144cells 166MM solar cells



## Product Feature



### 9 Busbar Solar Cell

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



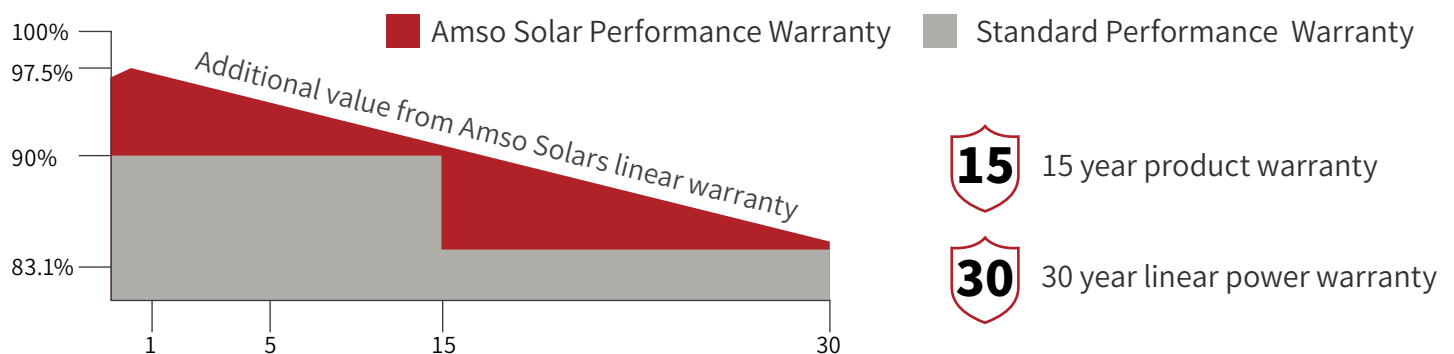
### Durability of extreme conditions

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).



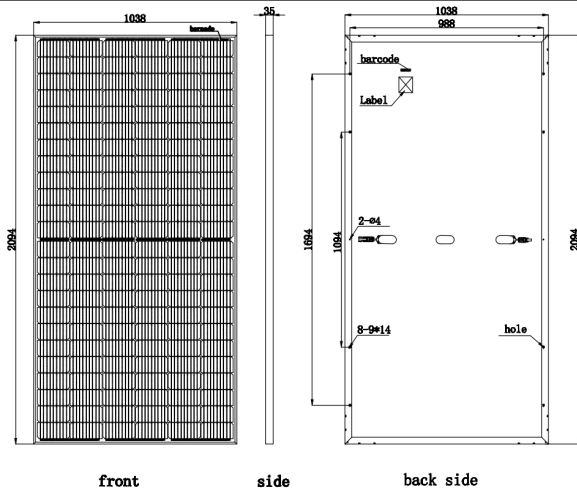
### Mono Crystalline Essential Parameter (STC 1000W/M<sup>2</sup> Cell Temperature 25°C AM=1.5)

Model Type	AS420S7	AS430S7	AS440S7	AS450S7	AS460S7
Power(w)	420	430	440	450	460
Number of Cells	144 (6*24)	144 (6*24)	144 (6*24)	144 (6*24)	144 (6*24)
Dimensions(MM)	2094*1038*35	2094*1038*35	2094*1038*35	2094*1038*35	2094*1038*35
Weight(KG)	25	25	25	25	25
Vmp(v)	40.59	40.72	41.09	41.48	41.89
Imp (A)	10.35	10.56	10.71	10.85	10.98
Voc(v)	48.27	48.65	48.98	49.44	49.87
Isc(A)	10.97	11.49	11.46	11.60	11.73
Module Efficiency	18.9%	19.3%	19.8%	20.2%	20.7%

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

Model Type	AS420S7	AS430S7	AS440S7	AS450S7	AS460S7
Power(w)	322.66	330.34	338.02	345.71	353.39
Number of Cells	144 (6*24)	144 (6*24)	144 (6*24)	144 (6*24)	144 (6*24)
Dimensions(MM)	2094*1038*35	2094*1038*35	2094*1038*35	2094*1038*35	2094*1038*35
Weight(KG)	25	25	25	25	25
Vmp(v)	37.00	37.12	37.46	37.81	38.19
Imp (A)	8.72	8.90	9.02	9.14	9.25
Voc(v)	44.52	44.87	45.17	45.60	46.00
Isc(A)	9.32	9.77	9.74	9.86	9.97
Module Efficiency	18.9%	19.3%	19.8%	20.2%	20.7%

### 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	20A

### Mechanical Characteristics

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

### Packing Configuration

Container	20GP	40GP
Pallets per container	10	22
Pieces per container	285-305	726

## CONTACT INFORMATION

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**CONTACT US!**