

# AMSO SOLAR

435—460W

solar panel with 60 cells 182MM 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



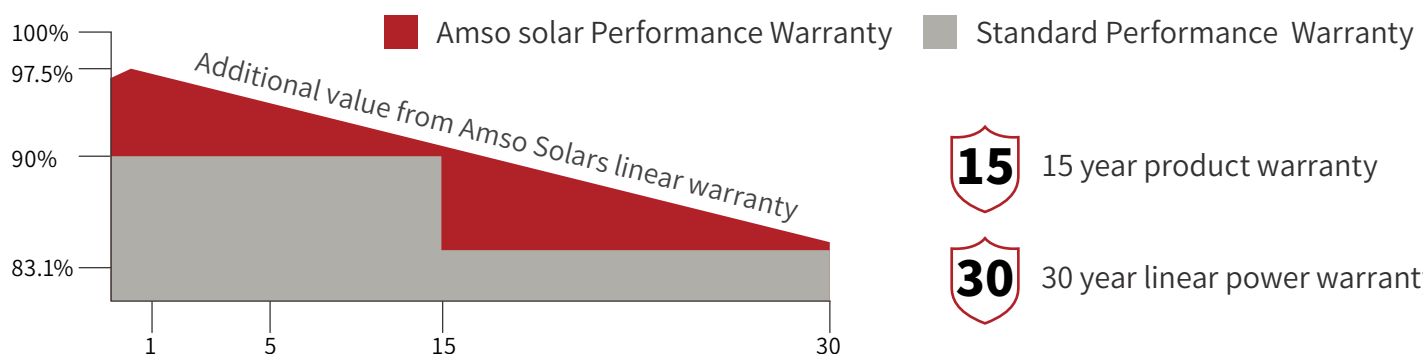
### Durability of extreme conditions

High salt mist and ammonia resistance certified by TÜV NORD



### Severe Weather Resilience

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



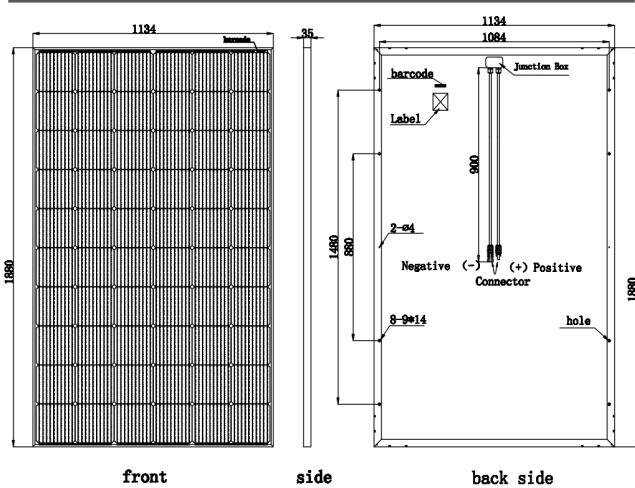
### Mono Crystalline Essential Parameter (STC 1000W/M<sup>2</sup> Cell Temperature 25°C AM=1.5)

Model Type	AS435S8	AS440S8	AS445S8	AS450S8	AS455S8	AS460S8
Power(w)	435	440	445	450	455	460
Number of Cells	60 (6*10)	60 (6*10)	60 (6*10)	60 (6*10)	60 (6*10)	60 (6*10)
Dimensions(MM)	1880*1134*35	1880*1134*35	1880*1134*35	1880*1134*35	1880*1134*35	1880*1134*35
Weight(KG)	21	21	21	21	21	21
Vmp(v)	33.83	34.06	34.27	34.52	34.77	34.95
Imp (A)	12.86	12.92	12.99	13.04	13.09	13.16
Voc(v)	40.60	40.86	41.07	41.33	41.60	41.81
Isc(A)	13.68	13.74	13.82	13.88	13.93	14.01
Module Efficiency	20.4%	20.6%	20.9%	21.1%	21.3%	21.6%

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

Model Type	AS435S8	AS440S8	AS445S8	AS450S8	AS455S8	AS460S8
Power(w)	334.18	338.02	341.86	345.71	349.55	353.39
Number of Cells	60 (6*10)	60 (6*10)	60 (6*10)	60 (6*10)	60 (6*10)	60 (6*10)
Dimensions(MM)	1880*1134*35	1880*1134*35	1880*1134*35	1880*1134*35	1880*1134*35	1880*1134*35
Weight(KG)	21	21	21	21	21	21
Vmp(v)	30.84	31.05	31.24	31.47	31.70	31.86
Imp (A)	10.84	10.89	10.94	10.99	11.03	11.09
Voc(v)	37.49	37.73	37.92	38.16	38.41	38.61
Isc(A)	11.63	11.68	11.75	11.80	11.84	11.91
Module Efficiency	20.4%	20.6%	20.9%	21.1%	21.3%	21.6%

### 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	25A

### 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	6	24
Pieces per container	330	744

## CONTACT INFORMATION

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**CONTACT US!**