

AMSO SOLAR

580—600W

solar panel with 120 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



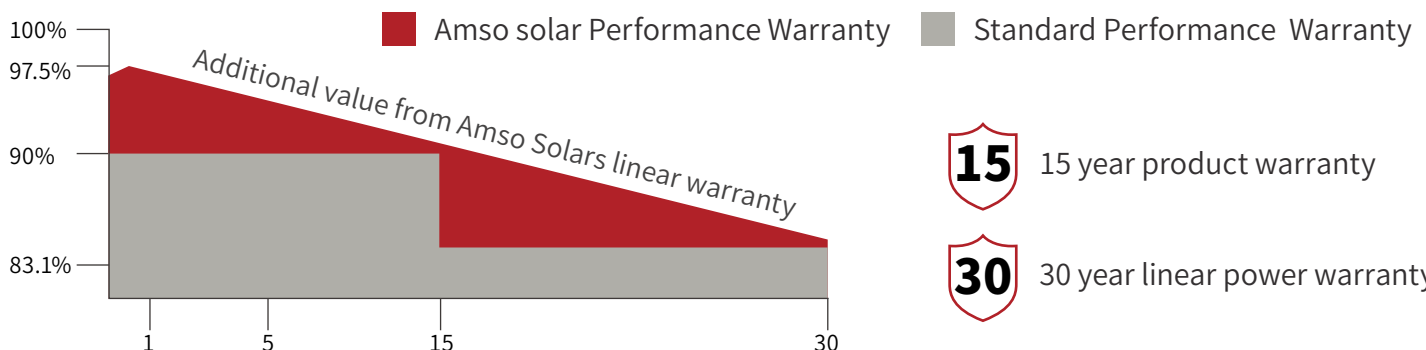
Durability of extreme conditions

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).



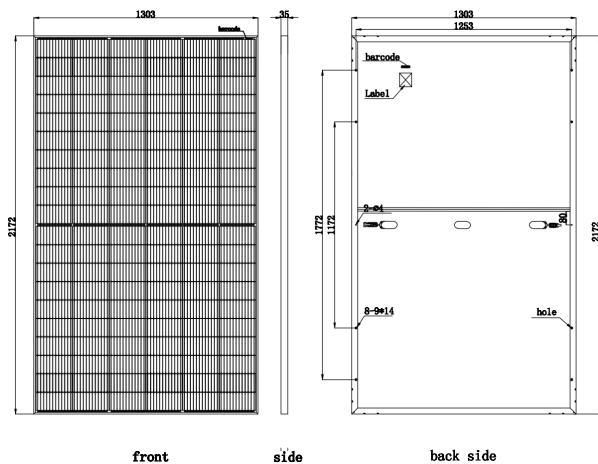
Mono Crystalline Essential Parameter (STC 1000W/M² Cell Temperature 25°C AM=1.5)

Model Type	AS580S9	AS585S9	AS590S9	AS595S9	AS600S9	AS605S9
Power(w)	580	585	590	595	600	605
Number of Cells	120 (6*20)	120 (6*20)	120 (6*20)	120 (6*20)	120 (6*20)	120 (6*20)
Dimensions(MM)	2172*1303*35	2172*1303*35	2172*1303*35	2172*1303*35	2172*1303*35	2172*1303*35
Weight(KG)	31	31	31	31	31	31
Vmp(v)	33.76	33.95	34.14	34.35	34.54	34.75
Imp (A)	17.18	17.23	17.28	17.32	17.37	17.41
Voc(v)	40.7	40.9	41.1	41.3	41.5	41.7
Isc(A)	18.21	18.26	18.31	18.36	18.41	18.46
Module Efficiency	20.3%	20.4%	20.6%	20.8%	21.0%	21.1%

Mono Crystalline Essential Parameter (NOCT 800W/M² Ambient Temperature 20°C AM=1.5)

Model Type	AS580S9	AS585S9	AS590S9	AS595S9	AS600S9	AS605S9
Power(w)	445.58	449.42	453.26	457.10	460.94	464.78
Number of Cells	120 (6*20)	120 (6*20)	120 (6*20)	120 (6*20)	120 (6*20)	120 (6*20)
Dimensions(MM)	2172*1303*35	2172*1303*35	2172*1303*35	2172*1303*35	2172*1303*35	2172*1303*35
Weight(KG)	31	31	31	31	31	31
Vmp(v)	30.78	30.95	31.12	31.31	31.49	31.68
Imp (A)	14.48	14.52	14.56	14.60	14.64	14.67
Voc(v)	37.58	37.77	37.95	38.14	38.32	38.50
Isc(A)	15.48	15.52	15.56	15.61	15.65	15.69
Module Efficiency	20.3%	20.4%	20.6%	20.8%	21.0%	21.1%

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

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