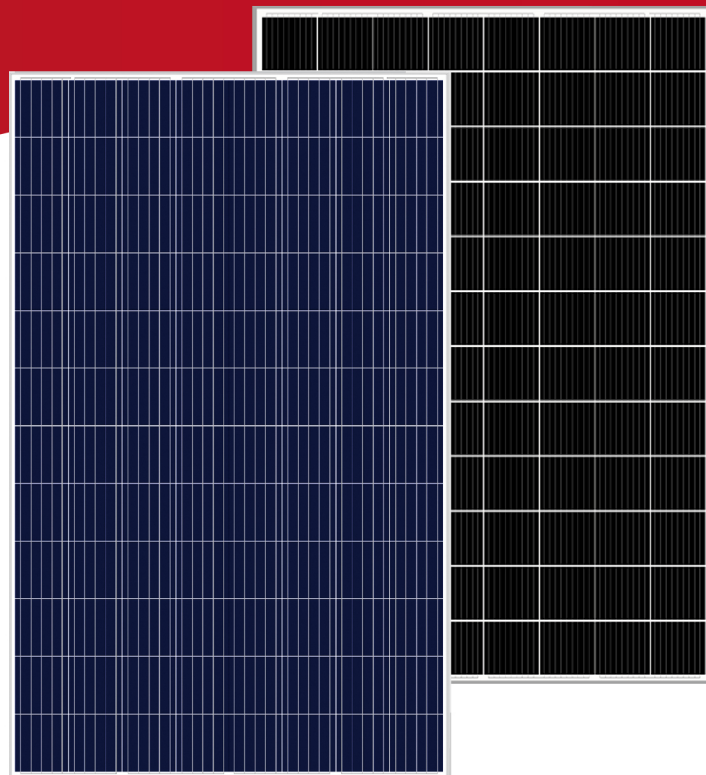


AMSO SOLAR

450-550W

standard 96 cells crystalline PV Module



Product Advantage

5&9 Busbar Solar Cell (158.75*158.75mm)
5&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

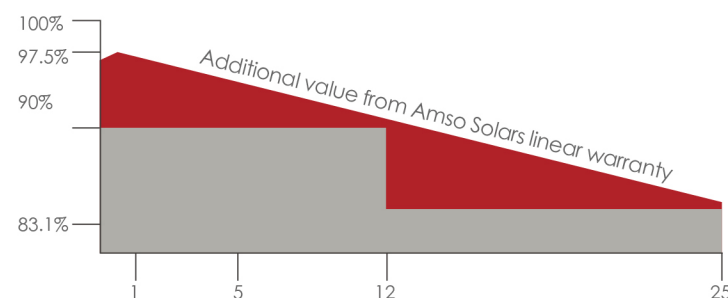


Technology

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

Linear performance warranty

12 YEAR Product Warranty
25 YEAR Linear Power 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
AS500M-96	500	96 (8*12)	1980*1320*40	26.5	51.2	9.77	62.8	10.08	19.1%
AS510M-96	510	96 (8*12)	1980*1320*40	26.5	51.3	9.95	62.9	10.26	19.5%
AS520M-96	520	96 (8*12)	1980*1320*40	26.5	51.6	10.18	63.2	10.41	19.9%
AS530M-96	530	96 (8*12)	1980*1320*40	26.5	51.9	10.22	63.5	10.57	20.3%
AS540M-96	540	96 (8*12)	1980*1320*40	26.5	52.2	10.35	63.8	10.71	20.7%
AS550M-96	550	96 (8*12)	1980*1320*40	26.5	52.5	10.48	63.9	10.90	21.0%

Poly Crystalline Essential Parameter

Model Type	Power(w)	Number of Cells	Dimensions(MM)	Weight(KG)	Vmp(v)	Imp (A)	Voc(v)	Isc(A)	Module Efficiency
AS450P-96	450	96 (8*12)	1980*1320*40	26.5	49.4	9.11	60.9	9.50	17.2%
AS460P-96	460	96 (8*12)	1980*1320*40	26.5	49.7	9.26	61.2	9.64	17.6%
AS465P-96	465	96 (8*12)	1980*1320*40	26.5	50.0	9.30	61.4	9.71	17.8%
AS470P-96	470	96 (8*12)	1980*1320*40	26.5	50.3	9.35	61.6	9.78	18.0%

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℃)

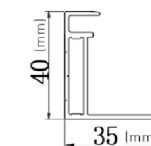
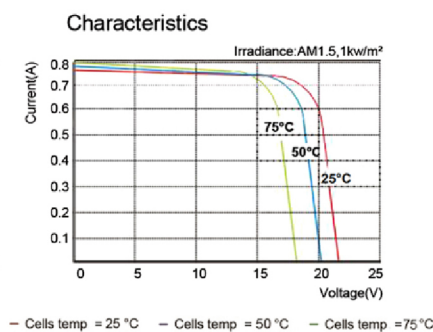
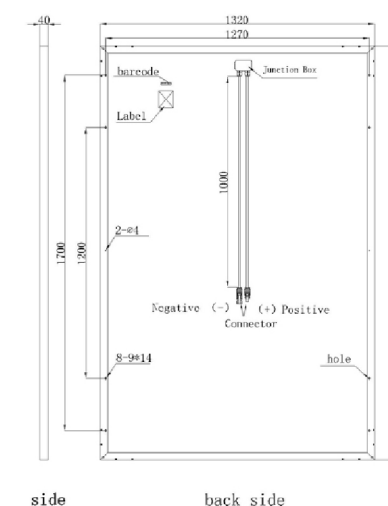
Mechanical Characteristics

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

Packing Configuration

Container	20' GP	40' GP
Pieces per pallet	52	56&27
Pallets per container	4	9
Pieces per container	208	475

Mechanical Drawings



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