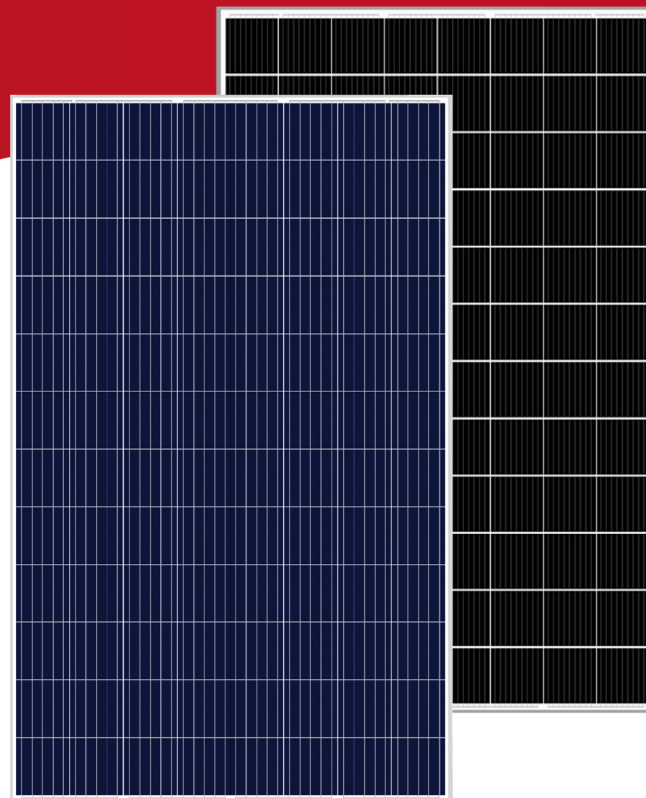


# AMSO SOLAR

450-540W

standard 96 cells crystalline PV Module



## Product Advantage

**5 Busbar Solar Cell** (157\*157mm)  
5 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

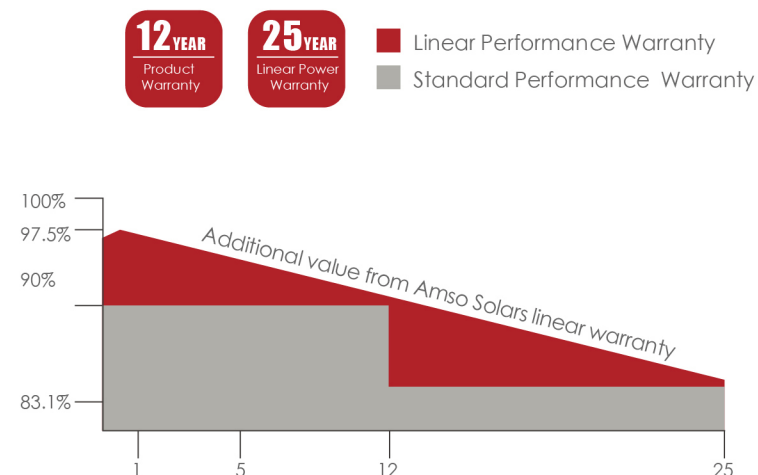
- Using high efficiency solar cells
- High quality junction box and connector systems
- 100% inspection to guarantee the reliability of solar systems



## Technology

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

## Linear performance warranty



## 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
AS500W-S8	500	96 (8*12)	1956*1310*40	26	51.2	9.77	62.8	10.08	19.5%
AS510W-S8	510	96 (8*12)	1956*1310*40	26	51.3	9.95	62.9	10.26	19.9%
AS520W-S8	520	96 (8*12)	1956*1310*40	26	51.6	10.18	63.2	10.41	20.2%
AS530W-S8	530	96 (8*12)	1956*1310*40	26	51.9	10.22	63.5	10.57	20.6%
AS540W-S8	540	96 (8*12)	1956*1310*40	26	52.2	10.35	63.8	10.71	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
AS450W-S8	450	96 (8*12)	1956*1310*40	26	49.4	9.11	60.9	9.50	17.2%
AS460W-S8	460	96 (8*12)	1956*1310*40	26	49.7	9.26	61.2	9.64	17.6%
AS465W-S8	465	96 (8*12)	1956*1310*40	26	50.0	9.30	61.4	9.71	17.8%
AS470W-S8	470	96 (8*12)	1956*1310*40	26	50.3	9.35	61.6	9.78	18.0%

## 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	15A

\*Standard test conditions:measured values(atmosphirc mass AM.5,irradiance 1000W/m2,battery temperature 25°C)

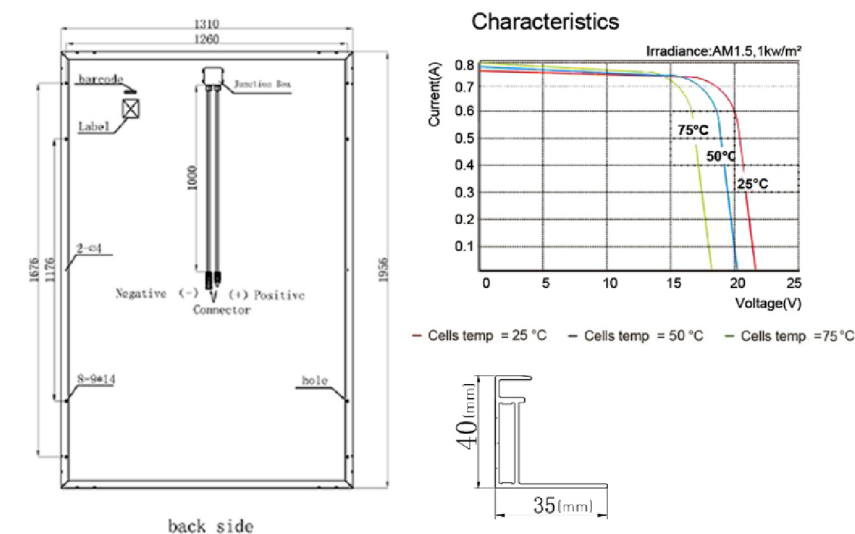
## Mechanical Characteristics

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	54	58
Pallets per container	4	9
Pieces per container	216	522

## Mechanical Drawings



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