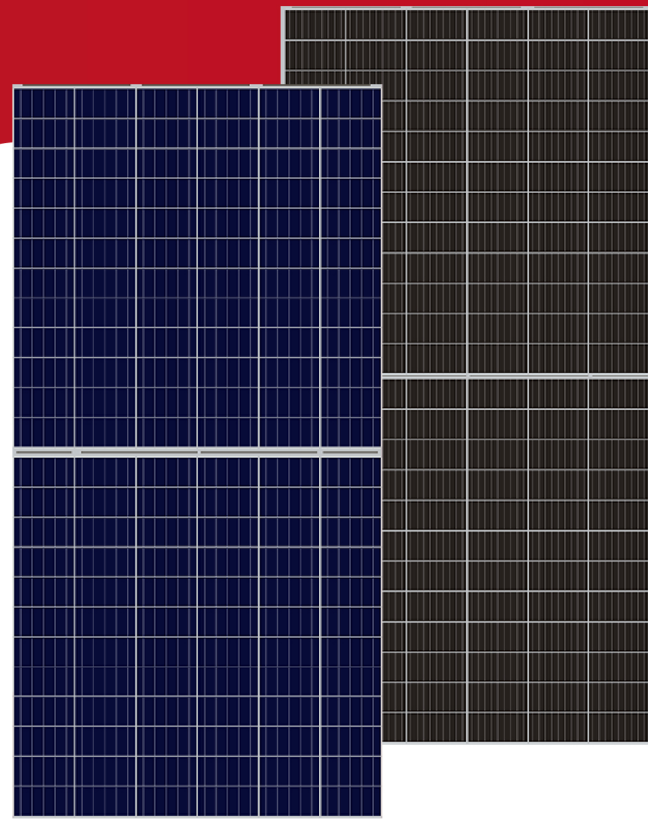


# AMSO SOLAR

## 320-410W

standard 144 cells crystalline PV Module



### Product Advantage

**5&9 Busbar Solar Cell** (158.75\*79.375mm)  
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

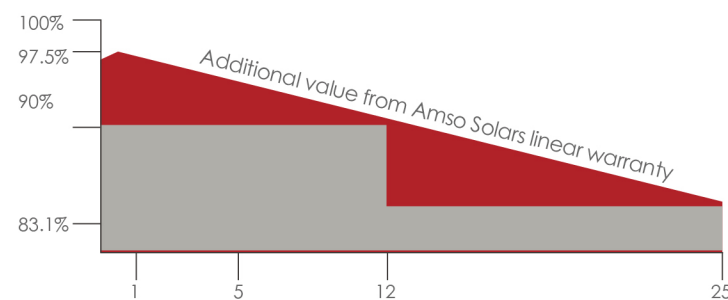


### Technology

- 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
AS380S-72	380	144 (6*24)	2015*996*35	20.5	39.9	9.52	48.7	9.99	18.9%
AS390S-72	390	144 (6*24)	2015*996*35	20.5	40.3	9.67	49.2	10.19	19.4%
AS400S-72	400	144 (6*24)	2015*996*35	20.5	40.9	9.79	49.7	10.33	19.9%
AS405S-72	405	144 (6*24)	2015*996*35	20.5	41.1	9.86	49.8	10.41	20.2%
AS410S-72	410	144 (6*24)	2015*996*35	20.5	41.2	9.96	50.0	10.49	20.4%

### 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
AS320P-144	320	144 (6*24)	2015*996*35	20.5	37.5	8.54	45.2	9.19	15.9%
AS330P-144	330	144 (6*24)	2015*996*35	20.5	37.7	8.76	45.5	9.36	16.4%
AS340P-144	340	144 (6*24)	2015*996*35	20.5	37.9	8.98	45.8	9.52	16.9%
AS345P-144	345	144 (6*24)	2015*996*35	20.5	38.1	9.06	46.2	9.51	17.2%
AS350P-144	350	144 (6*24)	2015*996*35	20.5	38.3	9.14	46.5	9.53	17.4%

### 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℃)

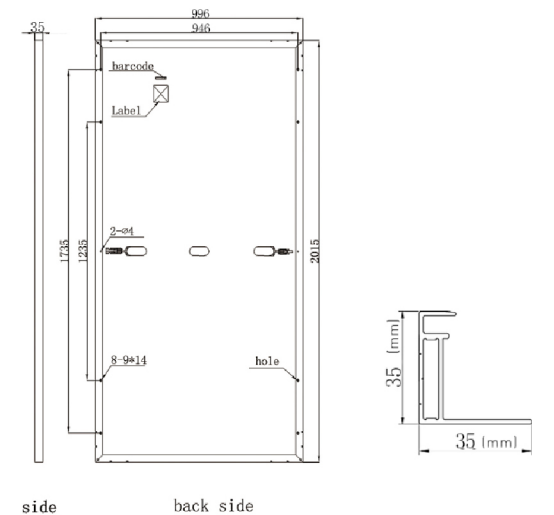
### Mechanical Characteristics

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	30	30&36
Pallets per container	10	22
Pieces per container	324	750

### Mechanical Drawings



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