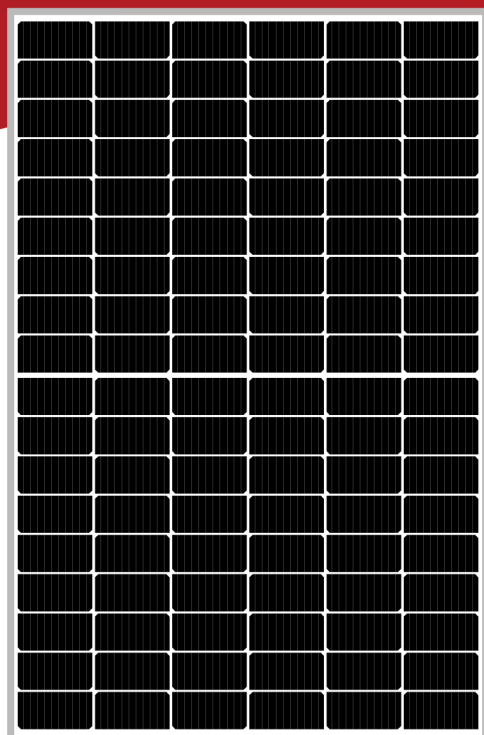


# AMSO SOLAR

## MONO 390-415W

solar panel with 108 cells 182MM solar cells



### Product Advantage



**Solar Cell** (182\*91mm)  
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 21.2%) 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

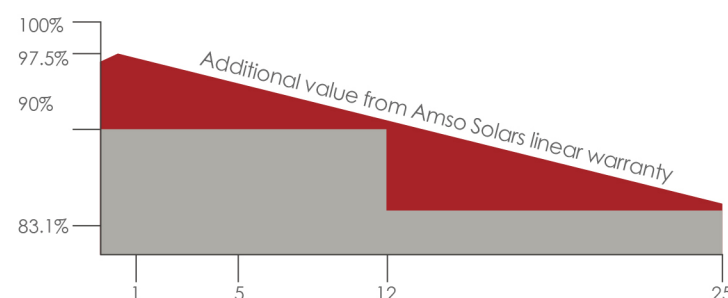
- Excellent performance in low-light environment
- High transmissivity, low-iron tempered glass

### Linear performance warranty

**12 YEAR**  
Product Warranty

**25 YEAR**  
Linear Power Warranty

■ Linear Performance Warranty  
■ Standard Performance Warranty



### Mono Crystalline Essential Parameter (STC 1000W/M Module Temperature 25°C A.M.1.5)

Model Type	Power(w)	Number of Cells	Dimensions(MM)	Weight(KG)	Vmp(v)	Imp (A)	Voc(v)	Isc(A)	Module Efficiency
AS390S8-108	390	108 (6*18)	1724*1134*35mm	19.5	30.59	12.75	36.67	13.63	19.9%
AS395S8-108	395	108 (6*18)	1724*1134*35mm	19.5	30.76	12.84	36.91	13.71	20.2%
AS400S8-108	400	108 (6*18)	1724*1134*35mm	19.5	30.98	12.91	37.10	13.80	20.4%
AS405S8-108	405	108 (6*18)	1724*1134*35mm	19.5	31.23	12.97	37.33	13.87	20.7%
AS410S8-108	410	108 (6*18)	1724*1134*35mm	19.5	31.44	13.04	37.58	13.94	20.9%
AS415S8-108	415	108 (6*18)	1724*1134*35mm	19.5	31.66	13.11	37.83	14.02	21.2%

### Mono Crystalline Essential Parameter (NOCT 800W/M Environment Temperature 20°C A.M.1.5)

Model Type	Power(w)	Number of Cells	Dimensions(MM)	Weight(KG)	Vmp(v)	Imp (A)	Voc(v)	Isc(A)	Module Efficiency
AS390S8-108	299.61	108 (6*18)	1724*1134*35mm	19.5	27.88	10.75	33.86	11.59	19.9%
AS395S8-108	303.45	108 (6*18)	1724*1134*35mm	19.5	28.04	10.82	34.08	11.66	20.2%
AS400S8-108	307.29	108 (6*18)	1724*1134*35mm	19.5	28.24	10.88	34.25	11.73	20.4%
AS405S8-108	311.13	108 (6*18)	1724*1134*35mm	19.5	28.46	10.93	34.47	11.79	20.7%
AS410S8-108	314.98	108 (6*18)	1724*1134*35mm	19.5	28.66	10.99	34.70	11.85	20.9%
AS415S8-108	318.82	108 (6*18)	1724*1134*35mm	19.5	28.85	11.05	34.93	11.92	21.2%

### 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

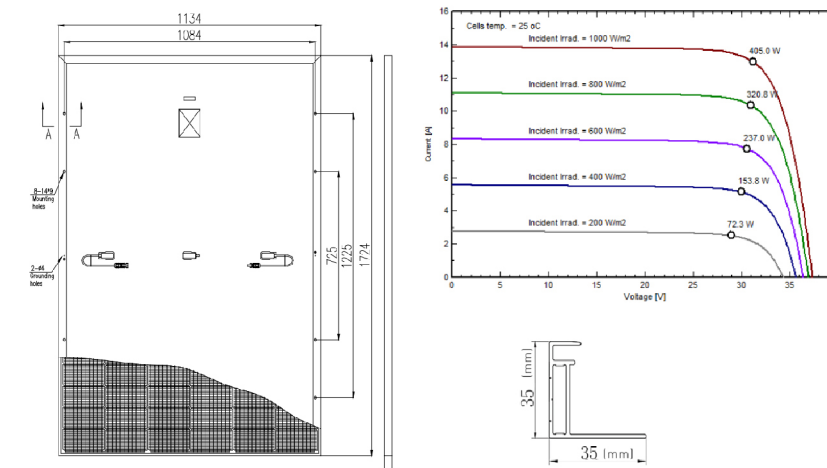
Operating temperature	-40+85°C
Maximum system voltage	1000/1500VDC
Maximum fuse rated current	25A

\*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	IP68 rated
Connectors	MC4 compatible

### Mechanical Drawings



### Packing Configuration

Container	40' GP
Pieces per pallet	31
Pallets per container	26
Pieces per container	806

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