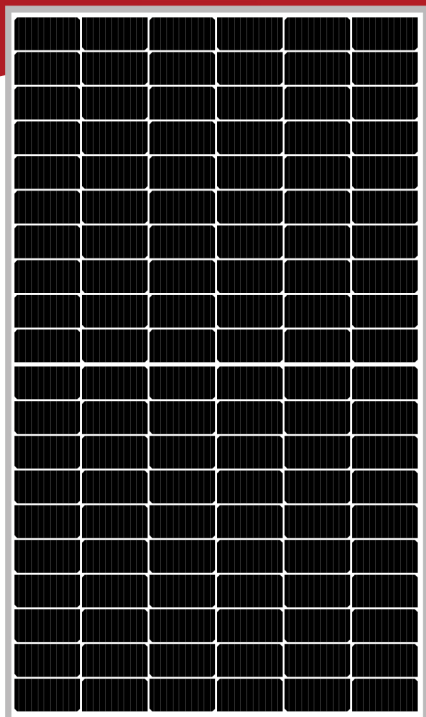


AMSO SOLAR

MONO 435-455W

solar panel with 120 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 21.1%) 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



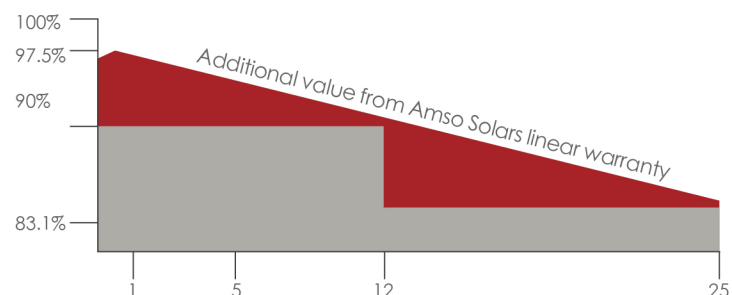
Technology

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

Linear performance warranty



- 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
AS435S8-120	435	120 (6*20)	1915*1134*35mm	21.5	33.98	12.8	40.75	13.68	20.2%
AS440S8-120	440	120 (6*20)	1915*1134*35mm	21.5	34.21	12.86	41.01	13.74	20.4%
AS445S8-120	445	120 (6*20)	1915*1134*35mm	21.5	34.42	12.93	41.22	13.82	20.6%
AS450S8-120	450	120 (6*20)	1915*1134*35mm	21.5	34.67	12.98	41.48	13.88	20.9%
AS455S8-120	455	120 (6*20)	1915*1134*35mm	21.5	34.92	13.03	41.75	13.93	21.1%

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
AS435S8-120	334.18	120 (6*20)	1915*1134*35mm	21.5	30.98	10.79	37.62	11.63	20.2%
AS440S8-120	338.02	120 (6*20)	1915*1134*35mm	21.5	31.19	10.84	37.86	11.68	20.4%
AS445S8-120	341.86	120 (6*20)	1915*1134*35mm	21.5	31.37	10.9	38.06	11.75	20.6%
AS450S8-120	345.71	120 (6*20)	1915*1134*35mm	21.5	31.6	10.94	38.3	11.8	20.9%
AS455S8-120	349.55	120 (6*20)	1915*1134*35mm	21.5	31.83	10.98	38.55	11.84	21.1%

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

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

Limit parameter

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

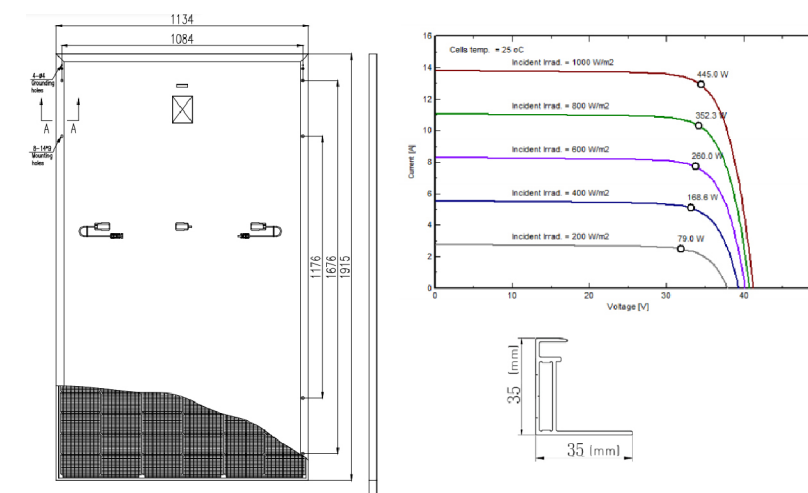
Mechanical Characteristics

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

Packing Configuration

Container	40'GP
Pieces per pallet	31
Pallets per container	24
Pieces per container	744

Mechanical Drawings



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