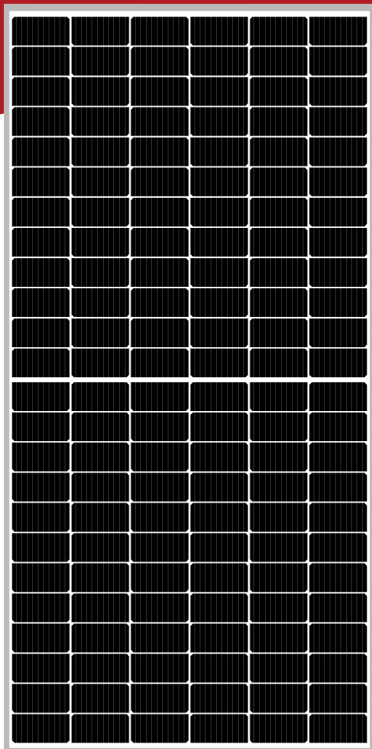


AMSO SOLAR

MONO 530-550W

solar panel with 144 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 21.3%) 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



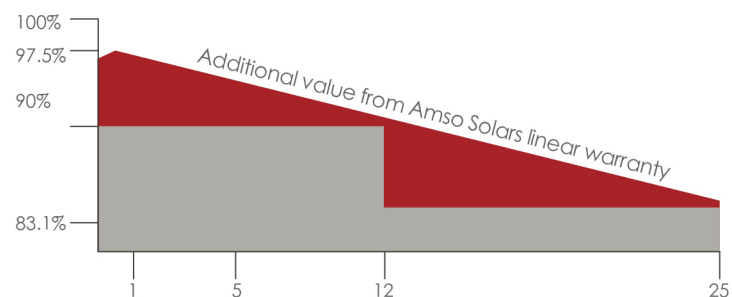
Technology

- 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 |
|-------------|----------|-----------------|----------------|------------|--------|---------|--------|--------|-------------------|
| AS530S8-144 | 530 | 144 (6*24) | 2279*1134*35mm | 27 | 41.28 | 12.84 | 49.61 | 13.66 | 20.5% |
| AS535S8-144 | 535 | 144 (6*24) | 2279*1134*35mm | 27 | 41.51 | 12.89 | 49.87 | 13.72 | 20.7% |
| AS540S8-144 | 540 | 144 (6*24) | 2279*1134*35mm | 27 | 41.7 | 12.95 | 49.95 | 13.78 | 20.9% |
| AS545S8-144 | 545 | 144 (6*24) | 2279*1134*35mm | 27 | 41.92 | 13 | 50.04 | 13.84 | 21.1% |
| AS550S8-144 | 550 | 144 (6*24) | 2279*1134*35mm | 27 | 42.11 | 13.06 | 50.28 | 13.90 | 21.3% |

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 |
|-------------|----------|-----------------|----------------|------------|--------|---------|--------|--------|-------------------|
| AS530S8-144 | 407.16 | 144 (6*24) | 2279*1134*35mm | 27 | 37.62 | 10.82 | 45.8 | 11.61 | 20.5% |
| AS535S8-144 | 411.01 | 144 (6*24) | 2279*1134*35mm | 27 | 37.83 | 10.86 | 46.04 | 11.66 | 20.7% |
| AS540S8-144 | 414.85 | 144 (6*24) | 2279*1134*35mm | 27 | 38.01 | 10.91 | 46.12 | 11.72 | 20.9% |
| AS545S8-144 | 418.69 | 144 (6*24) | 2279*1134*35mm | 27 | 38.21 | 10.96 | 46.2 | 11.77 | 21.1% |
| AS550S8-144 | 422.53 | 144 (6*24) | 2279*1134*35mm | 27 | 38.39 | 11.01 | 46.42 | 11.82 | 21.3% |

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)

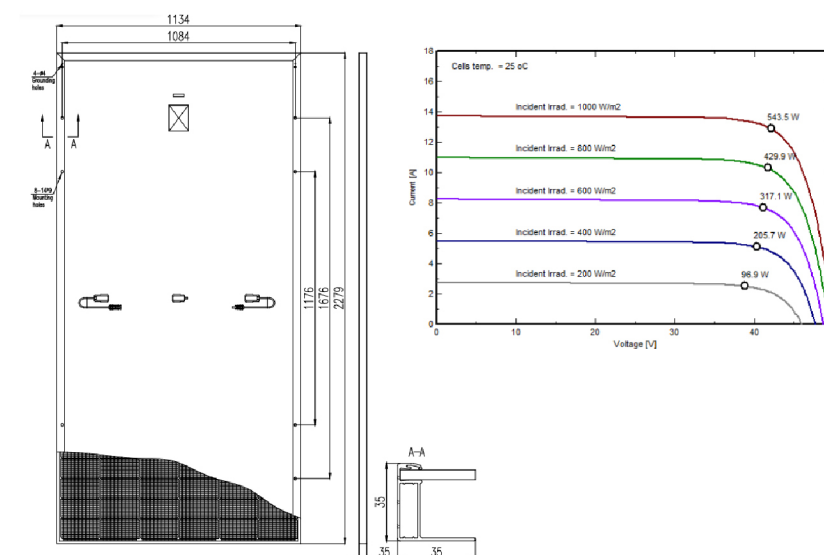
Mechanical Characteristics

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

Packing Configuration

| | |
|-----------------------|-------|
| Container | 40'GP |
| Pieces per pallet | 31 |
| Pallets per container | 20 |
| Pieces per container | 620 |

Mechanical Drawings



📍 Address: Rm 1603, 99 Zhongshan Rd, Nanjing, China

☎ Tel: 0086-025-85562529
Mobile Phone: 0086-13814007208

✉ E-mail: info@amsosolar.com



<https://www.amsosolar.com/>