



South African Modules

Local Content Compliant
Supports Local Job Creation
South African Owned
Locally Guaranteed

OUR APPROACH

ARTsolar believes high quality solar power should be produced locally at globally competitive pricing. Meticulous manufacturing, testing and quality assurance standards, certified raw materials and an in-house developed MES system ensures consistent traceable quality.

Local Support

Designed for the African climate:

- 3600pa wind & 5400pa mechanical loads
- High temperature operation
- Certified salt and ammonia resistance
- PID resistance certified by SGS
- Super high efficiency: up to 21.30%
- Quality control and traceability by PVflow®

Certifications

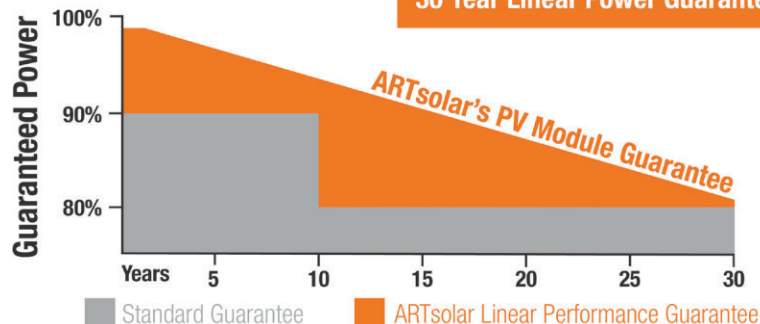
- SABS
- CSA, IEC61701, IEC 61215, IEC 62804,
- IEC 62716, IEC 61701, IEC 60068
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electroluminescence (EL) tested
- Built for export to Europe



ART550 -144 -1500MH
Half-Cut Cell MonoPERC

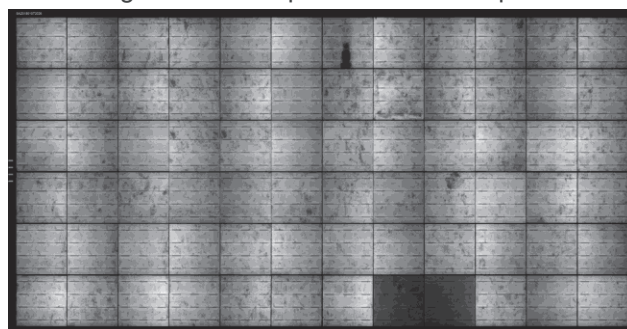
Locally Guaranteed

**12 Year Product Guarantee
30 Year Linear Power Guarantee**



Multiple Electro-Luminescence (EL) Tested

- Multiple EL tests throughout the production line
- EL Images can be requested with each purchase



Make sure your PV module doesn't look like this. An EL looks like an X-ray which spots cracks and power loss areas invisible to the naked eye.



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MODULE DESIGN

Module Dimensions and Weights

144 Cell - 2279 x 1134 x 35mm (28.5kg)

SPECIFICATIONS

Solar Cells: MBB, Large Wafer, Half-Cut Cell
Mono Percium

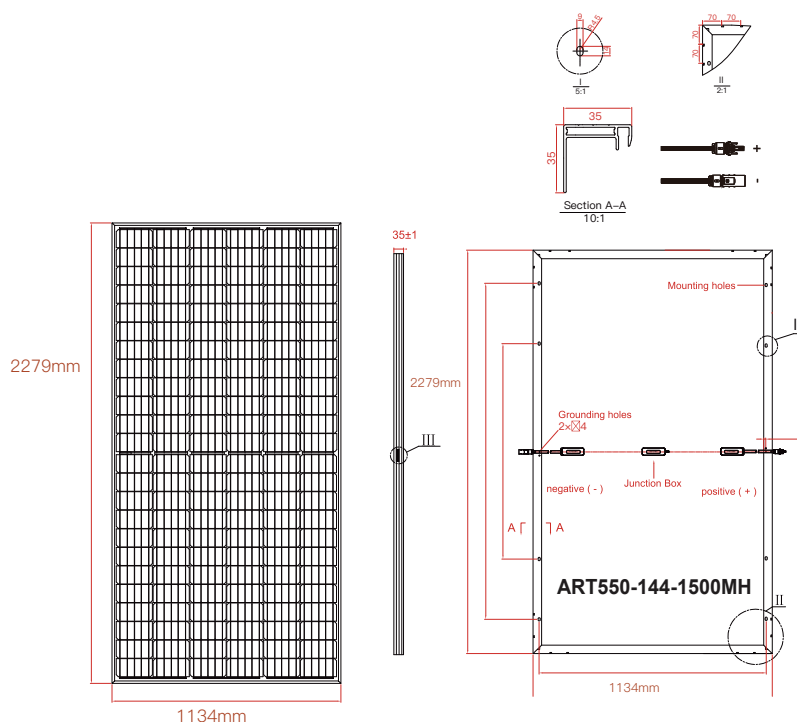
Solar Glass: 3.2mm, tempered, low iron,
high transparency solar safety
glass with anti-reflective coating.

Encapsulation: EVA

Backsheet: White or Black

Frame: Extruded, anodized aluminum

Junction Box: IP68 rated, 3 diodes,
1100mm cable,
MC4 standard connectors



Electrical Data @ STC

Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff
144 Cell	550 Wp	42.00V	13.1A	49.85V	13.97A	21.3%

Electrical Data @ NOCT

Design	Pmax(Wp)	Vmp	Imp	Voc	Isc
144 Cell	409 Wp	38.42V	10.65A	46.84V	11.33A

STC - Irradiance 1000W/m², cell temp @ 25°C

NOCT - Irradiance 800W/m², cell temp @ 20°C **KEY**

Pmax(Wp) - maximum power, **Vmp** - voltage at max power, **Voc** - open circuit voltage, **Isc** - short circuit current

Imp - max power current, **Eff** - module efficiency (%)

STC - Standard Test Conditions

NOCT - Nominal Operating Cell Temperature

* Figures are typical values of performance. Slight variances do occur, exact specifications available with each module,

Temperature Ratings

Nominal Operating Cell Temp	45°C (±2°C)
Nominal Module Operating Temp (NMOT)	41°C (±3°C)
Temp coefficient of Pmax	-0.36%/°C
Temp coefficient of Voc	-0.26%/°C
Temp coefficient of Isc	0.04%/°C

Maximum Ratings

Operational Temp	-40 to +85°C
Max system Voltage	1500VDC (IEC/UL)
Max Series Fuse Rating	20A
Mechanical Load	5400pa