



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, TÜV certified raw materials and an in-house developed MES system ensures consistent traceable quality.

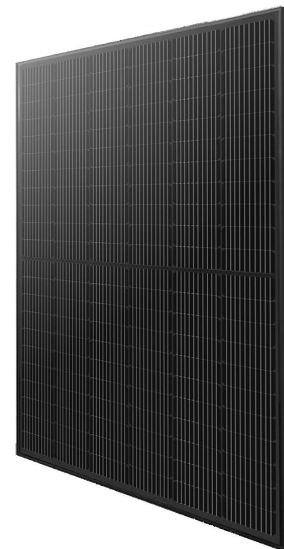
Local Support

Designed for the African climate:

- 2400pa wind & 5400pa mechanical loads
- High temperature operation
- Certified salt and ammonia resistance
- PID resistance certified by SGS
- Super high efficiency: up to 21.50%
- Quality control and traceability by PVflow®

Certifications

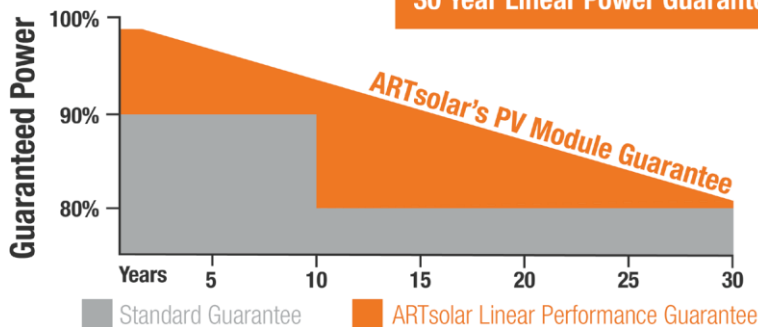
- TÜV & SABS
- CSA, IEC61701, IEC 61215, IEC 62804,
- IEC 62716, IEC 61701, IEC 60068
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electroluminescence (EL) tested
- Built for export to Europe



ART500-132-1500MH
 Half-Cut Cell Mono PERC
 FULL BLACK

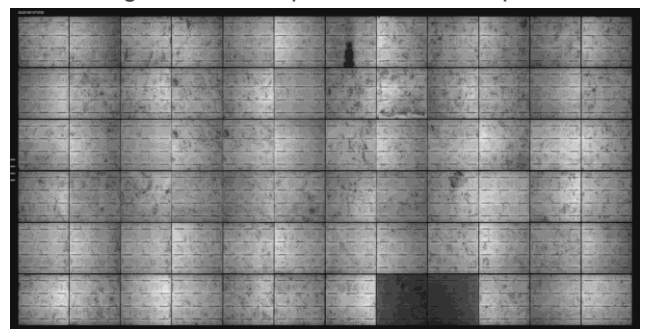
Locally Guaranteed

**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

132 Cell - 2094 x 1134 x 35mm (25.5kg)

SPECIFICATIONS

Solar Cells: MBB, Large Wafer, Half-Cut Cell Monocrystalline

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

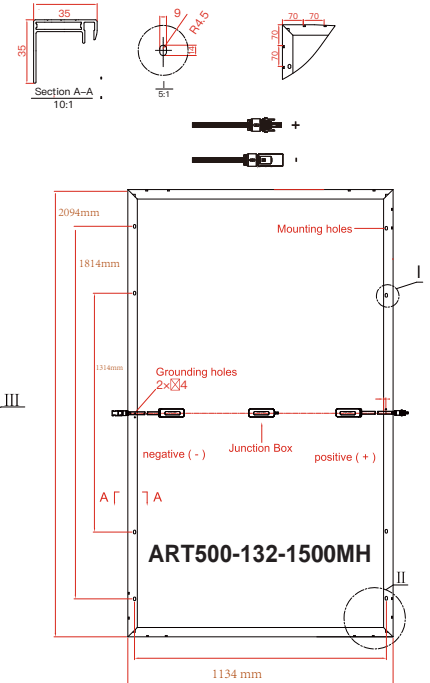
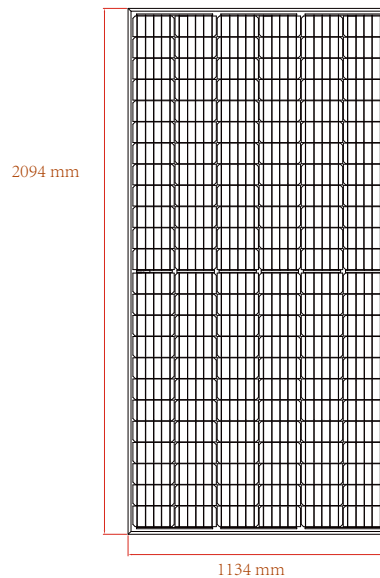
Encapsulation: EVA

Backsheet: Black

Frame: Extruded, anodized aluminum, Black

Junction Box: IP68 rated, 3 diodes, 1000mm cable,

MC4 standard connectors



Electrical Data @ STC

Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff
132 Cell	500 Wp	38.38V	13.03A	45.55V	13.90A	21.30%

Electrical Data @ NOCT

Design	Pmax(wp)	Vmp	Imp	Voc	Isc
132 Cell	378 Wp	35.93 V	10.52 A	42.72 V	11.27A

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

NOCT - Irradiance 800 W/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)
Tempcoefficient of Pmax	-0.36%/°C
Tempcoefficient of Voc	-0.26%/°C
Temp coefficient of Isc	0.040%/°C

Maximum Ratings

Operational Temp	-40 to +85°C
Max system Voltage	1500VDC (IEC/UL)
Max Series Fuse Rating	25A
Mechanical Load	5400pa