



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.

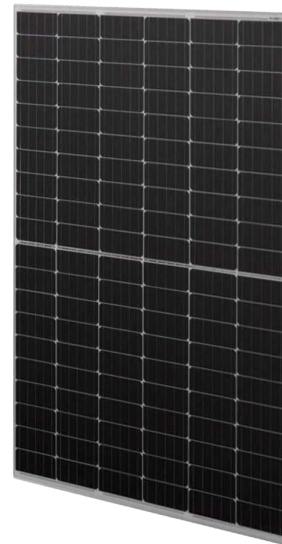
Local Support

Designed for the African climate:

- 3600pa wind & 5400pa mechanical loads
- High temperature operation
- Certified salt and ammonia resistance
- PID resistance certified by SGS
- Super high efficiency: up to 20.35%
- Quality control and traceability by PVflow®

Certifications

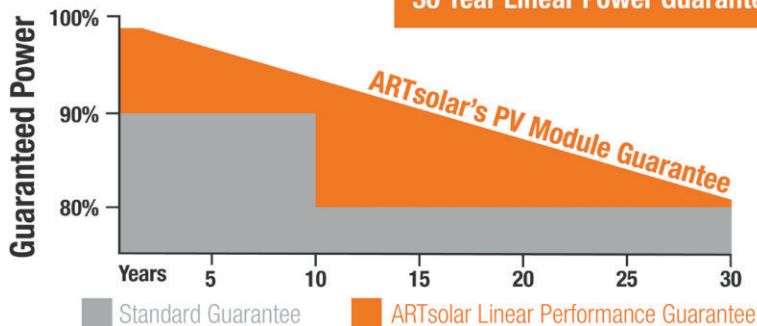
- TÜV & SABS
- CSA, IEC61701, IEC 61215, IEC 62804,
- IEC 62716, IEC 61701, IEC 60068
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electroluminescence (EL) tested
- Built for export to Europe



ART345 -120 -1500MH
 Half-Cut Cell Mono PERC

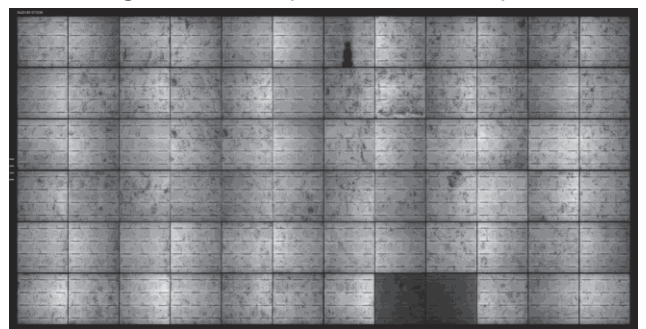
Locally Guaranteed

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

120 Cell - 1684 x 1002 x 35mm (20kg)

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

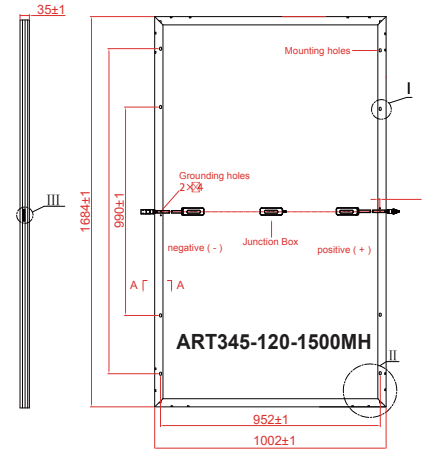
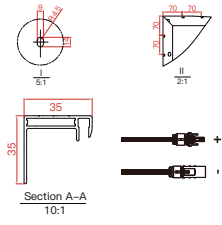
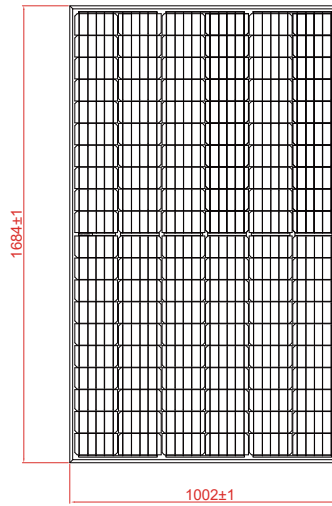
Backsheet: White or Black

Frame: Extruded, anodized aluminum

Junction Box: IP68 rated, 3 diodes,

1100mm cable,

MC4 standard connectors



Electrical Data @ STC							Electrical Data @ NOCT					
Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff	Design	Pmax(Wp)	Vmp	Imp	Voc	Isc
120Cell	345 Wp	33.69V	10.24A	40.45V	10.84A	20.35%	120Cell	256 Wp	32.40V	7.92A	38.80V	8.98A

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		Maximum Ratings	
Nominal Operating Cell Temp	45°C (±2°C)	Operational Temp	-40 to +85°C
Nominal Module Operating Temp (NMOT)	41°C (±3°C)	Max system Voltage	1500VDC (IEC/UL)
Temp coefficient of Pmax	-0.41%/°C	Max Series Fuse Rating	20A
Temp coefficient of Voc	-0.32%/°C	Mechanical Load	5400pa
Temp coefficient of Isc	0.05%/°C		