



### 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 20.2%
- Quality control and traceability by PVflow®

### Certifications

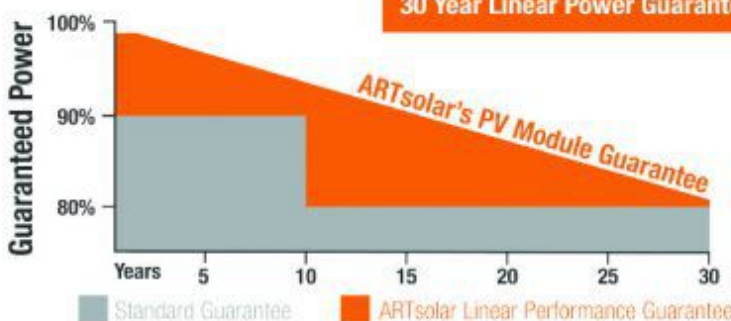
- TÜV & SABS
- CSA, IEC61701, IEC 61215, IEC 62804,
- IEC 62716, IEC 61701, IEC 60068
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electroluminescence (EL) tested
- Built for export to Europe



**ART335-120-1500MH**

Half-Cut Cell Mono PERC  
Solar Panel

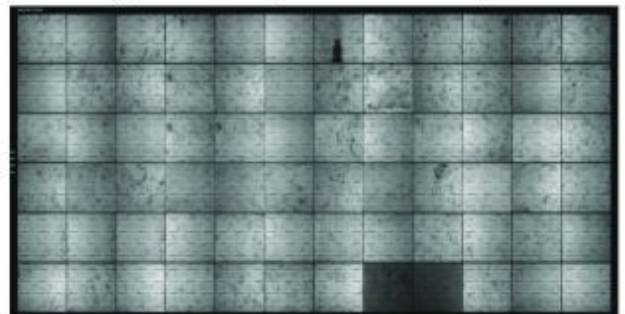
### Locally Guaranteed



**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.

**Einnova Solarline**  
invented for solar



**SABS**  
ISO 9001

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## MODULE DESIGN

### Module Dimensions and Weights

120 Cell - 1684 x 1002 x 40mm (19kg)

### SPECIFICATIONS

**Solar Cells:** 5 bus-bar, Half-Cut, Mono Perc

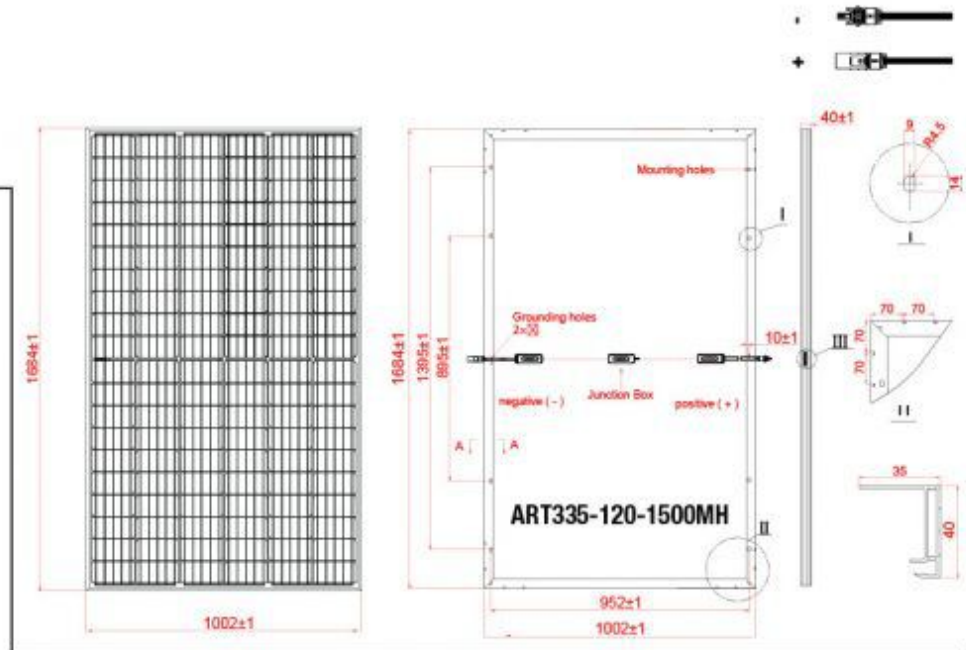
**Solar Glass:** 3.2mm, tempered, low iron, high transparency solar safety glass with anti-reflective coating.

**Encapsulation:** EVA

**Backsheet:** White

**Frame:** Extruded, anodized aluminium

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



Electrical Data @ STC							Electrical Data @ NOCT						
Design	P <sub>max</sub> (W <sub>p</sub> )	V <sub>mp</sub>	I <sub>mp</sub>	V <sub>oc</sub>	I <sub>sc</sub>	Eff	Design	P <sub>max</sub> (w <sub>p</sub> )	V <sub>mp</sub>	I <sub>mp</sub>	V <sub>oc</sub>	I <sub>sc</sub>	
120 Cell	335 W <sub>p</sub>	33.51V	10.00A	40.35V	10.56A	20.2%	120 Cell	250 W <sub>p</sub>	32.0V	7.82A	38.4V	8.74A	

STC - Irradiance 1000 W/m<sup>2</sup>, cell temp @ 25°C

NOCT - Irradiance 800 W/m<sup>2</sup>, cell temp @ 20°C

#### KEY

**P<sub>max</sub>(W<sub>p</sub>)** - maximum power, **V<sub>mp</sub>** - voltage at max power, **V<sub>oc</sub>** - open circuit voltage, **I<sub>sc</sub>** - short circuit current

**I<sub>mp</sub>** - 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 P <sub>max</sub>	-0.367%/°C	Max Series Fuse Rating	18A
Temp coefficient of V <sub>oc</sub>	-0.320%/°C	Mechanical Load	5400pa
Temp coefficient of I <sub>sc</sub>	0.107%/°C		