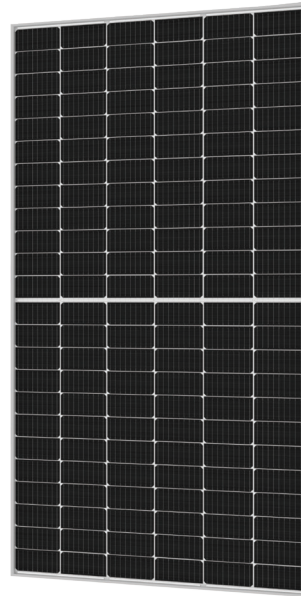


Half-Cut Mono-Crystalline

# ARTsolar 550W TOPCon N-Type Module



## MODULE

Design	132 CELL
Dimensions	2094 x 1134 x 30mm
Weight	25kg±3%

## 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 in-house developed MES system ensures consistent traceable quality.

## CERTIFICATIONS

Manufactured in line with:

SABS ISO 9001

ISO 14001

ISO 45001

IEC 61215

IEC 61730

UL 61730

CE

The IEC perscribed test with 25mm hail stones. (Speed of 23m/s)



**ARTsolar (Pty) Ltd South Africa**  
Units 10 & 11 New Germany Industrial  
Park, Gate 3, 124 Escom Road,  
Pinetown, Durban

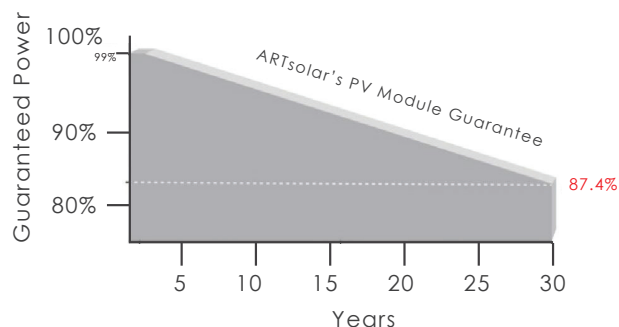
**0311001019**  
www.artsolar.net | sales@artsolar.net

## LOCAL SUPPORT

- Designed for the African Climate
- 2400pa Wind & 5400 Pa Mechanical Loads
- Robust Design For Demanding Climate Conditions
- Certified Salt & Ammonia Resistance
- PID Resistance Certified
- High Efficiency: Up To 23.16%
- Earth Leakage Tested To 3600v Dc
- Electroluminescence (EI) Tested
- Quality Control And Traceability
- Multiple Busbar And Half Cell Technique

## LOCALLY GUARANTEED

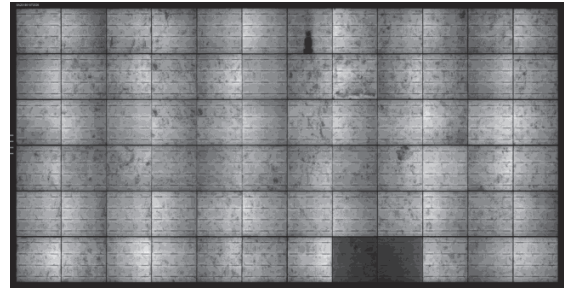
- 12 Year Product Guarantee
- 30 Year Linear Power Guarantee



Linear attenuation of 0.4% per year from the 2nd to 30th year.

## 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 the image to the right. An EL looks like an X-Ray which spots cracks and power loss areas invisible to the naked eye.



## MODULE SPECIFICATIONS

Solar Cells

Solar Glass

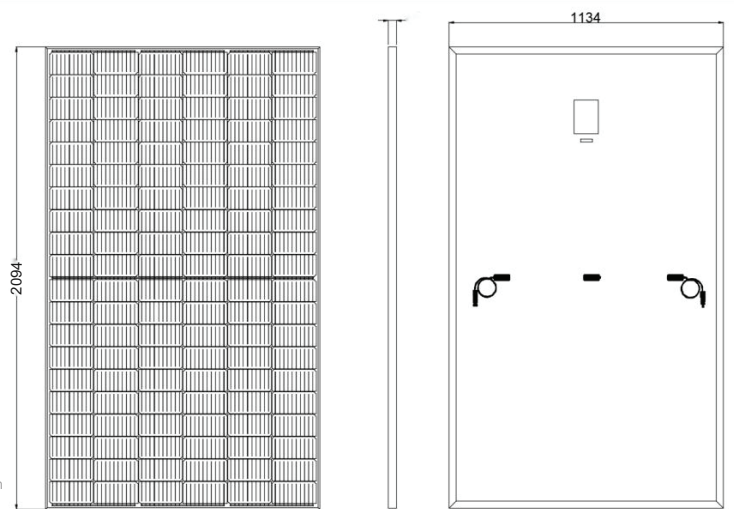
Encapsulation

Backsheet

Frame

Junction Box

Packing 36pcs/pallet



Length: ± 2mm  
 Width: ± 2mm  
 Thickness: ± 1mm  
 Hole pitch: ± 2mm

## ELECTRICAL DATA

	STC	NOCT
Design	132 Cell	132 Cell
Pmax (Wp)	550 Wp	417 Wp
Vmp	39.80V	36.97V
Imp	13.18A	11.28A
Voc	47.10V	44.77V
Isc	14.43A	11.67A
Eff	23.16%	

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

**NOCT** - Irradiance 800W/m<sup>2</sup>, 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

<b>Nominal Operating Cell Temp.</b>	45°C (±2°C)
<b>Nominal Module Operating Temp (NMOT)</b>	41°C (±3°C)
<b>Temp coefficient of Pmax</b>	-0.31%/°C
<b>Temp coefficient of Voc</b>	-0.26%/°C
<b>Temp coefficient of Isc</b>	+0.046%/°C

## MAXIMUM RATINGS

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