

## 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:

- 3800 pa wind & 5400 pa mechanical loads
- High temperature operation
- Easy module replacement
- Shipping within Southern Africa
- Quality control and traceability by PVflow®

### Certifications

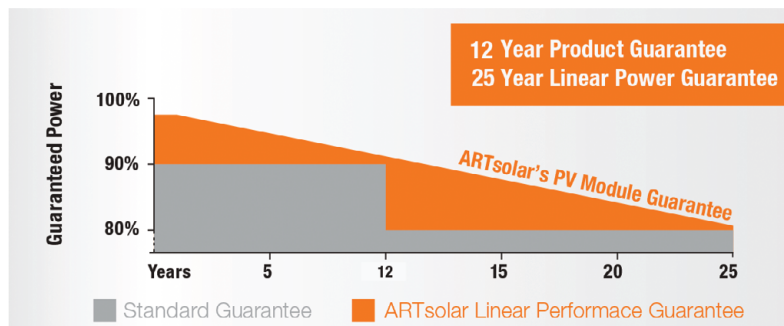
- TÜV SÜD & Rheinland, ISO 9001:2015
- CSA, IEC 61730 and IEC 61215
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Double Electro-Luminescence (EL) tested
- Built for export to Europe



**350 Wp Si-Mono PERC**

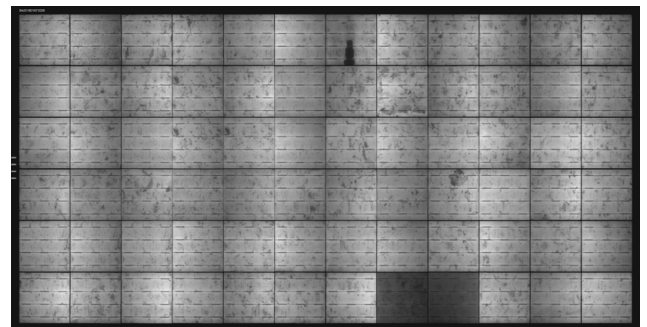
## Locally Guaranteed

- 12 year construction warranty
- 25 year linear power output guarantee

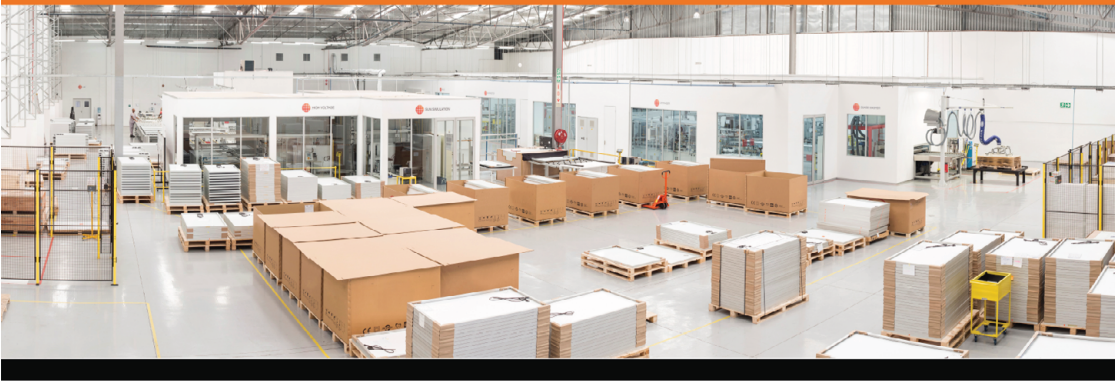


## Multiple Electro-Luminescence (EL) Tested

- 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

**72 Cell** - 1956 x 992 x 40mm (21kg)

## SPECIFICATIONS

**Solar Cells:** 5 bus-bar, monocrystalline PERC

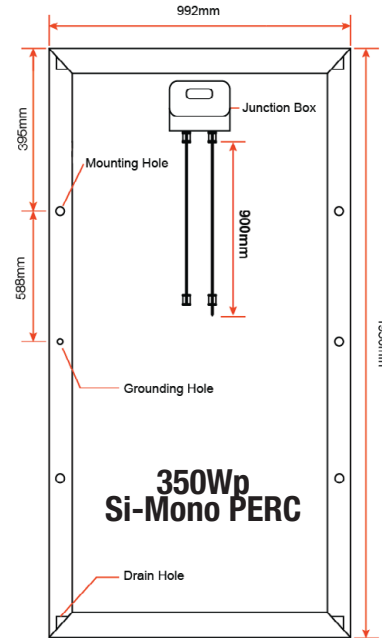
**Solar Glass:** 3.2mm, tempered, low iron, high transparency solar safety glass.

**Encapsulation:** EVA

**Backsheet:** White

**Frame:** Extruded, anodized aluminium

**Junction Box:** IP67 rated, 900mm cable, MC4 standard connectors



### Electrical Data @ STC

Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff
72 Cell	350 Wp	38.6V	9.07A	46.9V	9.51A	18.0%

### Electrical Data @ NOCT

Design	Pmax(wp)	Vmp	Imp	Voc	Isc
72 Cell	255 Wp	35.7V	7.15A	43.1V	7.68A

**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

**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)
Temp coefficient of Pmax	-0.41%/°C
Temp coefficient of Voc	-0.33%/°C
Temp coefficient of Isc	0.059%/°C

### Maximum Ratings

Operational Temp	-40 to +85°C
Max system Voltage	1000V DC (IEC)
Max Series Fuse Rating	15A
Mechanical Load	5400pa