

**For a Free Quote:**

Web: **EnergyPal.com/solar**

Call: **1-800-990-3725**

Email: **contact@energypal.com**



**Solar Panel Guide  
Specification Data Sheet**

**ARTsolar (Pty) Ltd**

**ART3XX-60M**

**ART310-60M**

Also available on the web at  
[EnergyPal.com/artsolar-pty-ltd-solar-panels/art310-60m](http://EnergyPal.com/artsolar-pty-ltd-solar-panels/art310-60m)



## 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 & SABS
- CSA, IEC 61730 and IEC 61215 Compliant
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electro-Luminescence (EL) tested
- Built for export to Europe



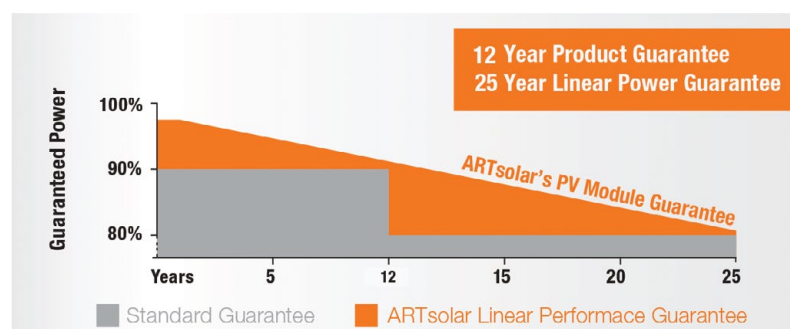
360 Wp Si-Mono PERC



300 Wp Si-Mono PERC

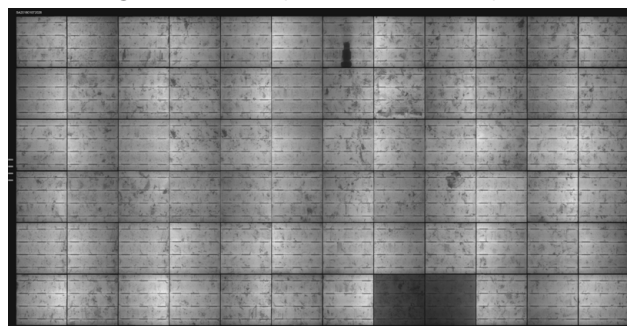
## Locally Guaranteed

- 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.

**Zinnova Solarline**  
invented for solar



**Tel** +27 31 100 1019

**Email** sales@artsolar.net

**Web** www.artsolar.net



## South African Modules

Local Content Compliant  
Supports Local Job Creation  
South African Owned  
Locally Guaranteed

## MODULE DESIGN

### Module Dimensions and Weights

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

**60 Cell** - 1640 x 992 x 40mm (18kg)

### SPECIFICATIONS

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

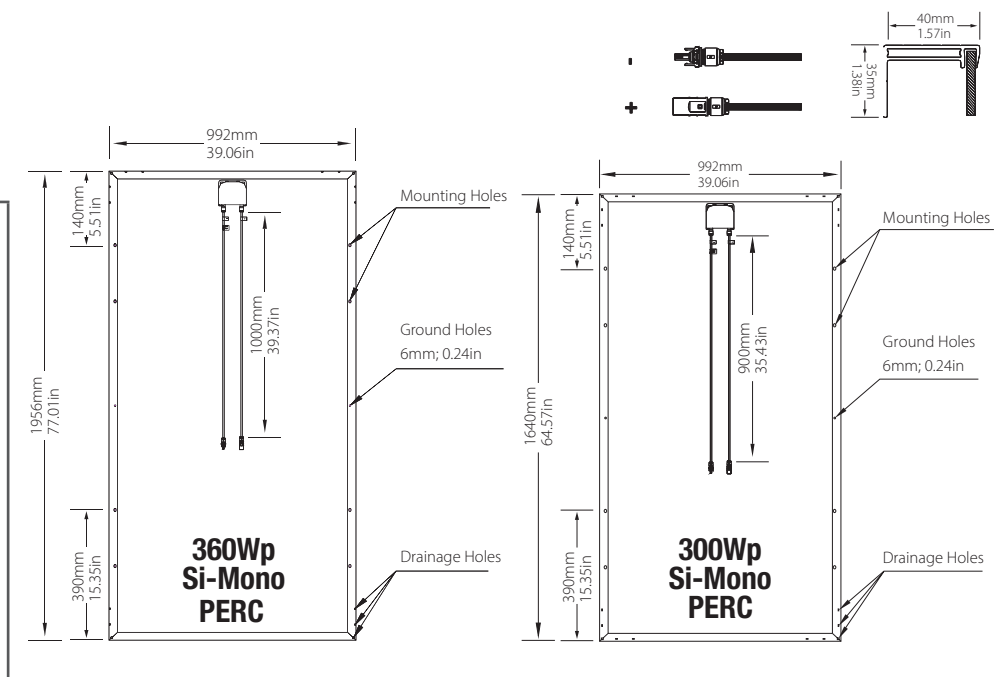
**Solar Glass:** 3.2mm, tempered, low iron, high transparency solar safety glass.

**Encapsulation:** EVA

**Backsheet:** White

**Frame:** Extruded, anodized aluminium

**Junction Box:** IP67 rated, 1000 / 900mm cable, MC4 standard connectors



#### Electrical Data @ STC

Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff
72 Cell	360 Wp	39.0V	9.24A	47.5V	9.71A	18.6%
60 Cell	300 Wp	32.6V	9.21A	39.7V	9.77A	18.5%

#### Electrical Data @ NOCT

Design	Pmax(wp)	Vmp	Imp	Voc	Isc
72 Cell	271 Wp	36.3V	7.46A	44.0V	7.90A
60 Cell	221 Wp	29.7V	7.43A	36.8V	7.78A

**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	-0.39%/°C
Temp coefficient of Voc	-0.30%/°C
Temp coefficient of Isc	0.050%/°C

#### Maximum Ratings

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