



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 ®

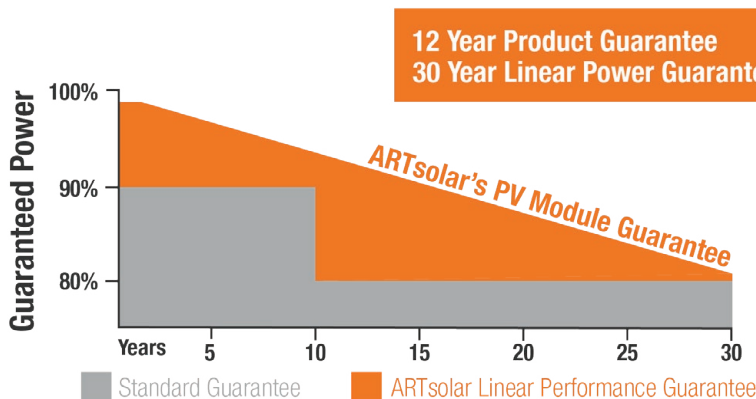
Certifications

- 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



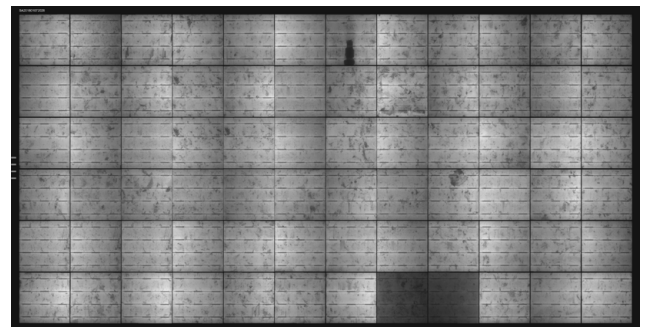
340Wp Si-Poly (72 Cell)

Locally Guaranteed



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: 4 or 5 bus-bar, polycrystalline

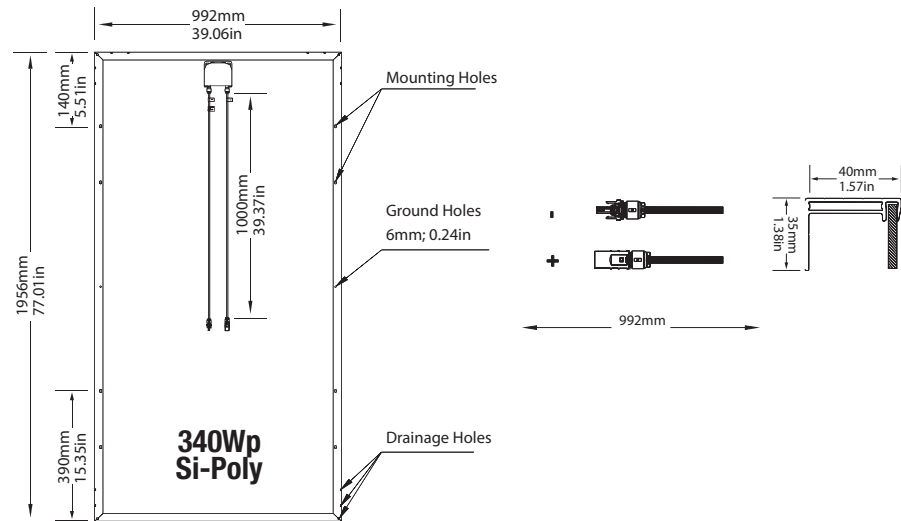
Solar Glass: 3.2mm, tempered, low iron, high transparency solar safety glass.

Encapsulation: EVA

Backsheet: White

Frame: Extruded, anodized aluminium

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



Electrical Data @ STC

Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff
72 Cell	340 Wp	37.8V	9.00A	46.3V	9.41A	17.5%

Electrical Data @ NOCT

Design	Pmax(wp)	Vmp	Imp	Voc	Isc
72 Cell	252 Wp	35.5V	7.10A	42.8V	7.49A

STC - Irradiance 1000 W/m², cell temp @ 25°C

NOCT - Irradiance 800 W/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

Nominal Operating Cell Temp	45°C (±2°C)
Temp coefficient of Pmax	-0.41%/°C
Temp coefficient of Voc	-0.32%/°C
Temp coefficient of Isc	0.05%/°C

Maximum Ratings

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