



## **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



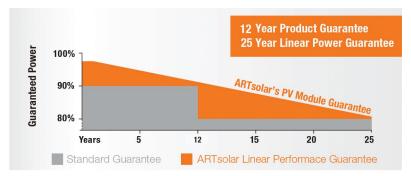




280Wp Si-Mono (60 Cell) Full Black Design

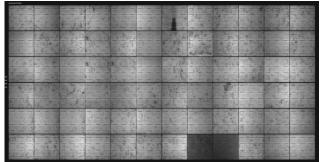
### **Locally Guaranteed**

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

## **SPECIFICATIONS**

**Solar Cells:** 5 bus-bar, monocrystalline **Solar Glass:** 3.2mm, tempered, low iron,

high transparancy solar safety

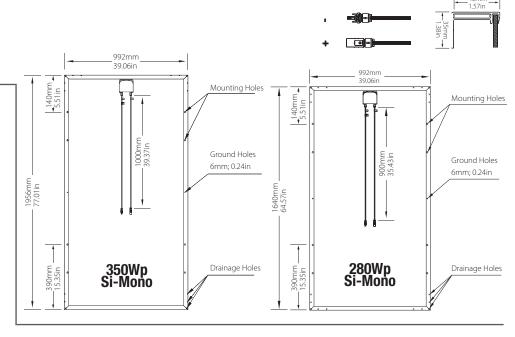
glass.

**Encapsulation:** EVA **Backsheet:** Black

Frame: Extruded, black anodized aluminium

Junction Box: IP67 rated, 900mm cable,

MC4 standard connectors



Electrical Data @ STC							Electrical Data @ NOCT					
Design	Pmax(Wp)	Vmp	lmp	Voc	Isc	Eff	Design	Pmax(wp)	Vmp	lmp	Voc	Isc
60 Cell	280 Wp	31.3V	8.96A	39.1V	9.50A	17.2%	60 Cell	215 Wp	29.8V	7.21A	36.1V	7.74A
72 Cell	350 Wp	38.6V	9.07A	46.9V	9.51A	18.0%	72 Cell	255 Wp	35.7V	7.15A	43.1V	7.68A

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

NOCT - Irradiace 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		Maximum Ratings			
Nominal Operating Cell Temp	45°C (±2°C)	Operational Temp	-40 to +85°C		
Temp coefficient of Pmax	-0.39%/°C	Max system Voltage	1000V DC (IEC)		
Temp coefficient of Voc	-0.31%/°C	Max Series Fuse Rating	15A		
Temp coefficient of Isc	0.03%/°C	Mechanical Load	5400pa		







