

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

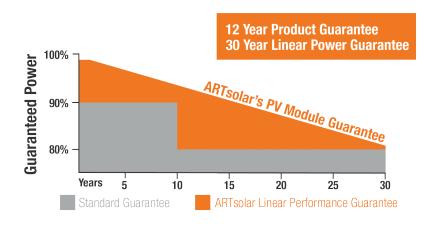
Designed for the African climate:

- 3800pa wind & 5400pa mechanical loads
- High temperature operation
- Certified salt and ammonia resistance
- PID resistance certified by SGS
- Super high efficiency: up to 20.25%
- Quality control and traceability by PVflow

Certifications

- TÜV & SABS
- CSA, IEC61701, IEC 61215, IEC 62804,
- IEC 62716, IEC 61701, IEC 60068
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electroluminescence (EL) tested
- Built for export to Europe

Locally Guaranteed

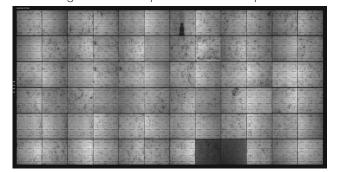




405Wp Si-Mono PERC Half-Cut Cell

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.













South African Modules

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

MODULE DESIGN

Module Dimensions and Weights

144 Cell - 2015 x 996 x 40mm (22.7kg)

SPECIFICATIONS

Solar Cells: MBB Half-Cut, Mono Perc
Solar Glass: 3.2mm, tempered, low iron,
high transparancy solar safety
glass with anti-reflective coating.

Encapsulation: EVA

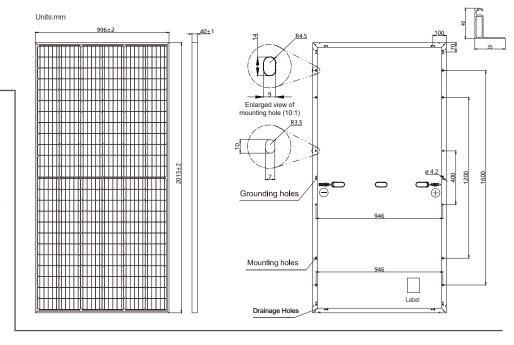
Backsheet: White

Frame: Extruded, anodized aluminium

Junction Box: IP68 rated, 3 diodes,

1200mm 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
144 Cell	405 Wp	41.5V	9.77A	49.8V	10.32A	20.20%	144 Cell	300 Wp	38.0V	7.88A	45.8V	8.33A

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	-0.350%/°C	Max system Voltage	1500V DC (IEC)		
Temp coefficient of Voc	-0.289%/°C	Max Series Fuse Rating	20A		
Temp coefficient of Isc	0.051%/°C	Mechanical Load	5400pa		







