

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.

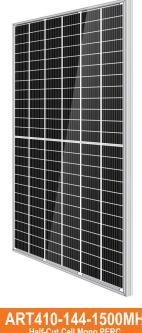
Local Support

Designed for the African climate:

- 3600pa 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

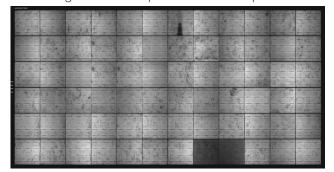
- **TÜV & SABS**
- CSA, IEC61701, IEC 61215, IEC 62804,
- IEC 62716, IEC 61701, IEC 60068
- State of the ART Swiss production facility
- Earth leakage tested to 3600V DC
- Triple Electroluminescence (EL) tested
- **Built for export to Europe**



ART410-144-1500MH Half-Cut Cell Mono PERC Solar Panel

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.

Locally Guaranteed 12 Year Product Guarantee 30 Year Linear Power Guarantee Guaranteed Power ARTsolar's PV Module Guarantee 90% 80% 15 20 5 10 25 Standard Guarantee ARTsolar Linear Performance Guarantee













South African Modules

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

MODULE DESIGN

Module Dimensions and Weights

144 Cell - 2008 x 1002 x 35 mm (21.5kg)

SPECIFICATIONS

Solar Cells: 5 bus-bar, Half-Cut, Mono Perc

Solar Glass: 3.2mm, tempered, low iron,

high transparancy solar safety

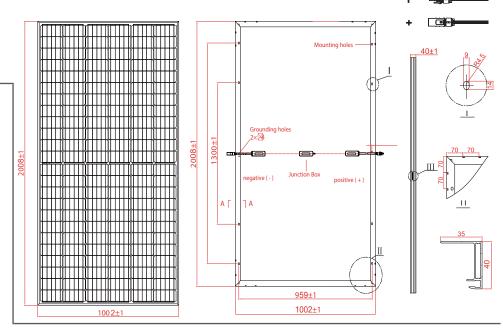
glass with anti-reflective coating.

Encapsulation: EVA **Backsheet:** White

Frame: Extruded, anodized aluminium Junction Box: IP68 rated, 3 diodes,

1100mm cable,

MC4 standard connectors



Electrical Data @ STC							Electrical Data @ NOCT					
Design	Pmax(Wp)	Vmp	Imp	Voc	Isc	Eff	Design	Pmax(wp)	Vmp	lmp	Voc	Isc
144 Cell	410 Wp	42.0V	9.76A	49.5V	10.25A	20.25%	144 Cell	310 Wp	40.0V	7.76A	48.9V	8.26A

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
Nominal Module Operating Temp (NMOT)	41°C (±3°C)	Max system Voltage	1500VDC (IEC / UL)
Temp coefficient of Pmax	-0.367%/°C	Max Series Fuse Rating	20A
Temp coefficient of Voc	-0.320%/°C	Mechanical Load	5400pa
Temp coefficient of Isc	0.107%/°C		







