

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

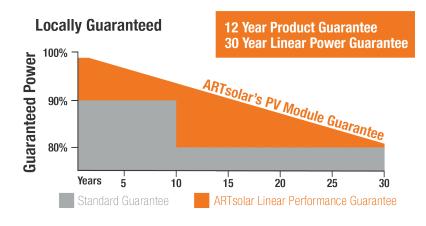
Designed for the African climate:

- 3800pa wind & 5400pa mechanical loads
- High temperature operation
- Certified salt and ammonia resistance
- PID resistance certified by SGS
- High efficiency: up to 19.84%
- 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







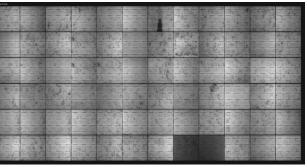




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Multiple Electro-Luminescence (EL) Tested

- 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.



Half-Cut Cell - BLACK



MODULE DESIGN

Module Dimensions and Weights

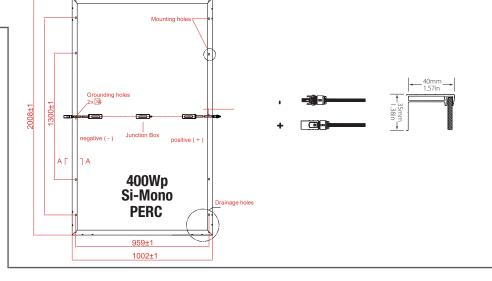
144 Cell - 2008 x 1002 x 40mm (21.5kg)

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: Black Frame: Extruded, black 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 | lsc | Eff | Design | Pmax(wp) | Vmp | Imp | Voc | lsc |
| 144 Cell | 400 Wp | 41.6V | 9.62A | 49.1V | 10.10A | 19.81% | 144 Cell | 302 Wp | 39.6V | 7.66A | 48.5V | 8.16A |
| 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 N | | | | | | Ma | laximum Ratings | | | | | |
| Nominal Operating Cell Temp 45°C (±2°C) | | | | Оре | erational Te | emp | -40 to +85°C | | | | | |

| Temperature naunys | | Maximum naunys | |
|-----------------------------|-------------|------------------------|----------------|
| Nominal Operating Cell Temp | 45°C (±2°C) | Operational Temp | -40 to +85°C |
| Temp coefficient of Pmax | -0.367%/°C | Max system Voltage | 1500V DC (IEC) |
| Temp coefficient of Voc | -0.32%/°C | Max Series Fuse Rating | 15A |
| Temp coefficient of Isc | 0.107%/°C | Mechanical Load | 5400pa |







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