# artsolar™

Half-Cut Cell Monocrystalline

# ART550-144 1500VDC Solar Panel

#### MODULE

Design 144 CELL

Dimensions 2279 x 1134 x 35mm

Weight 28.5kg

### OUR APPROACH

ARTsolar believes high quality solar power should be produced locally at globally competitive pricing. Meticulous manufacturing, testing and quality assurance standards, certified raw materials and in-house developed MES system ensures consistent traceable quality.

# CERTIFICATIONS

Manufactured in line with:

SABS ISO 9001

ISO 14001

ISO 45001

IEC 61215

IEC 61730

UL 61730

CE

The IEC perscribed test with 25mm hail stones. (Speed of 23m/s)























## LOCAL SUPPORT

Designed for the African Climate

3600pa wind & 5400 pa mechanical loads

High Temperature Operation

Certified salt & ammonia resistance

PID resistance certified

High effiency: Up to 21.50%

Earth leakage tested to 3600V DC

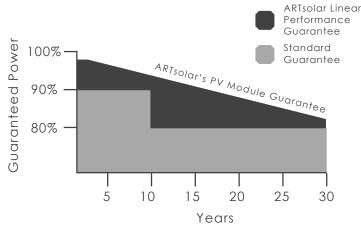
Electroluminescence (EL) tested

Quality control and traceability

# LOCALLY GUARANTEED

12 Year Product Guarantee

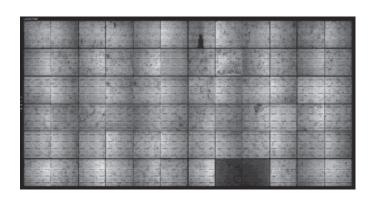
30 Year Linear Power Guarantee





# 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 the image to the right. An EL looks like an X-Ray which spots cracks and power loss areas invisible to the naked eye.



# MODULE SPECIFICATIONS

Solar Cells MBB, Larger Wafer, Half-Cut Cell Mono Percium

Solar Glass 3.2mm, tempered, low iron, high transparency solar

safety glass with anti-reflective coating.

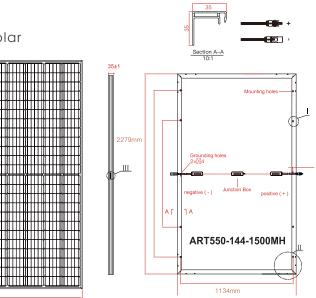
Encapsulation EVA

Backsheet White or Black

Frame Extruded, anodized aluminum

Junction Box IP68 rated, 3 diodes, 1100mm cable,

MC4 standard connectors



## ELECTRICAL DATA

	STC	NOCT	TTOHIIII
Design	144 Cell	144 Cell	<b>STC</b> - Irradiance 1000W/m2, cell temp. @ 25°C
Pmax (Wp)	550 Wp	409 Wp	NOCT - Irradiance 800W/m2, cell temp. @ 20°C KEY
, , ,	42.00V	38.42V	Pmax(Wp) - Maximum Power   Vmp - Voltage at Max Power
Vmp			Voc - Open Circuit Voltage   Isc - Short Circuit Current
Imp	13.1A	10.65A	Imp - Max Power Current   Eff - Module Efficiency %
Voc	49.85V	46.84V	STC - Standard Test Conditions
la a	12.07.4	11.33A	NOCT - Nominal Operating Cell Temperature
Isc	13.97A		*Figures are typical values of performance. Slight variances
Eff	21.3%		do occur, exact specifications available with each module.

2279mm

### TEMPERATURE RATINGS

# Nominal Operating Cell Temp. $45^{\circ}\text{C} \ (\pm 2^{\circ}\text{C})$ Nominal Module Operating Temp (NMOT) $41^{\circ}\text{C} \ (\pm 3^{\circ}\text{C})$ Temp coefficient of Pmax $-0.36\%/^{\circ}\text{C}$ Temp coefficient of Voc $-0.26\%/^{\circ}\text{C}$ Temp coefficient of Isc $-0.04\%/^{\circ}\text{C}$

### MAXIMUM RATINGS

Operational Temp -40 to +85°C

Max System Voltage 1500VDC (IEC/UL)

Max Series Fuse Rating 20A

Mechanical Load 5400pa