

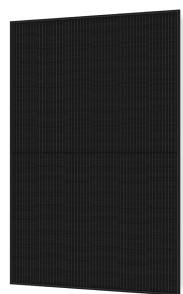


Half-Cut Cell Mono-Crystalline

ARTsolar 500W TOPCon N-Type Module

MODULE

Design Dimensions Weight 120 CELL 1910 x 1134 x 30mm 24kg±3%



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)

ARTsolar (Pty) Ltd South Africa Units 10 & 11 New Germany Industrial Park, Gate 3, 124 Escom Road, Pinetown, Durban

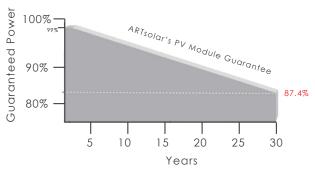
0311001019 www.artsolar.net | sales@artsolar.net

LOCAL SUPPORT

Designed for the African Climate 2400mpa Wind & 5400mpa Mechanical Loads Robust Design For Demanding Climate Conditions Certified Salt & Ammonia Resistance c Resistance Certified High Efficiency: Up To 23.08% Earth Leakage Tested To 3600v Dc Electroluminescence (El) Tested Quality Control And Traceability Multiple Busbar And Half Cell Technique

LOCALLY GUARANTEED

12 Year Product Guarantee 30 Year Linear Power Guarantee

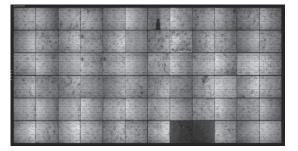


Linear attenuation of 0.4% per year from the 2nd to 30th year.



MULTIPLE ELECTRO-LUMINESCENCE (EL) TESTED

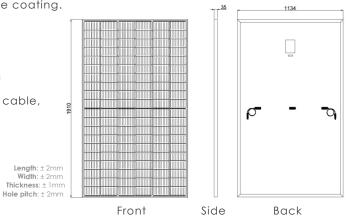
Multiple EL tests throughout the production line EL images can be requested with each purchase Make sure your PV module doesn't look like the image to the right. An EL looks like an X-Ray which spots cracks and power loss areas invisible to the naked eye.



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MODULE SPECIFICATIONS

Solar Cells	MBB, Larger Wafer, Half-Cut Cell TopCon N-Type	
Solar Glass	3.2mm, tempered, low iron, high transparency solar	
	safety glass with anti-reflective coating.	
Encapsulation	EVA	
Backsheet	Black	······································
Frame	Extruded, anodized aluminum	
Junction Box	IP68 rated, 3 diodes, 1000mm cable,	010
	MC4 standard connectors	~
Packing	36pcs/pallet	



ELECTRICAL DATA

	STC	NOCT
Design	120 Cell	120 Cell
Pmax (Wp)	500 Wp	377 Wp
Vmp	35.98V	33.87V
Imp	13.90A	11.13A
Voc	43.31V	41.17V
lsc	14.59A	11.84A
Eff	23.08%	

STC - Irradiance 1000W/m2, cell temp. @ 25°C			
NOCT - Irradiance 800W/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

Nominal Operating Cell Temp.	45°C (±2°C)
Nominal Module Operating Temp (NMOT)	41°C (±3°C)
Temp coefficient of Pmax	-0.31%/°C
Temp coefficient of Voc	-0.26%/°C
Temp coefficient of Isc	+0.046%/°C

MAXIMUM RATINGS

(±2°C)	Operational Temp	-40 to +85°C
(±3°C)	Max System Voltage	1500VDC (IEC/UL)
‰∕°C	Max Series Fuse Rating	25A
S∕°C	Max Load (Front & Back)	5400Mpa/2400Mpa

Note: The above information may subject to update without prior notice.