

ART-Ilanga PV Series

Manufactured in South Africa

High Local Content

Swiss equipment & process support, ensuring high quality product

10 year product warranty

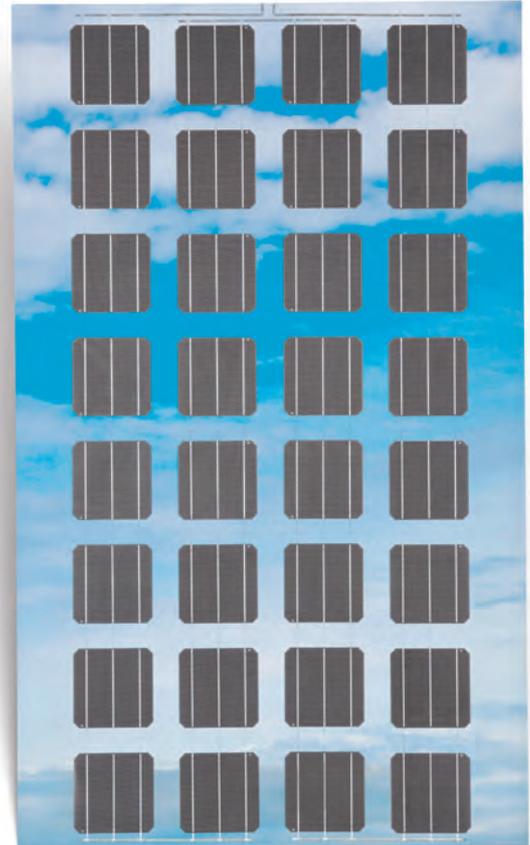
25 year linear performance warranty guaranteeing a maximum performance degradation of 0.8%/a

TuV Rheinland verified certification

Quality and static IEC61215
Operating safety IEC61730

Positive performance tolerance resulting in utmost system efficiency

Applied Renewable Technologies – the ART of Solar PV module production



The example above is a 125Wp frameless 32 cell glass-glass PV module



Modules designed specifically to withstand wind loads of up to 2400Pa and dynamic and static loads of up to 5400Pa, ensuring the stability, quality, reliability and long life expectancy of our modules.



Modules are manufactured with monocrystalline silicon cells and covered with textured glass offering high quality transmissions, allowing module output efficiency of up to 17.0%. These sophisticated materials ensure minimized installation costs and maximized kWp output of your solar system, per unit area.



Guaranteed power output -0/+5 Wp

Independently certified by international certification bodies

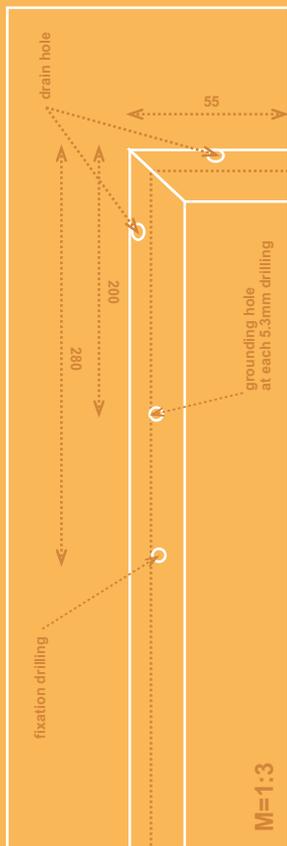
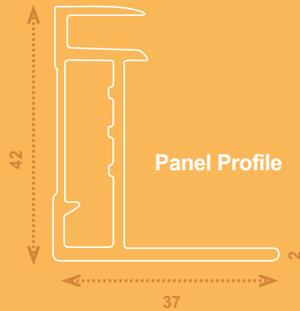
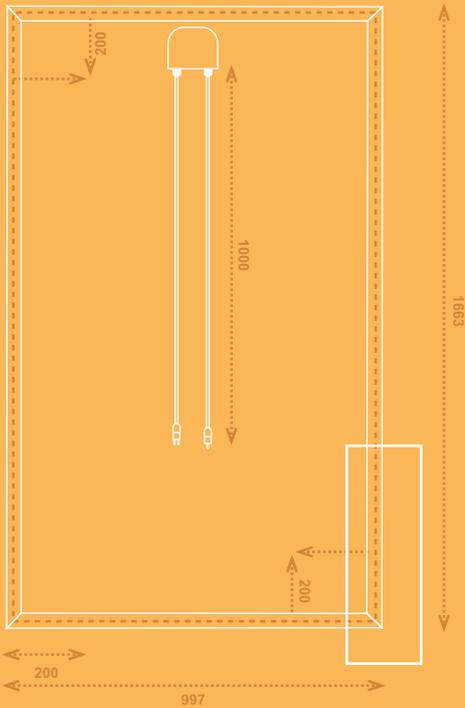


Designed specifically for the African climate



Manufactured according to International Quality & Environmental Management Systems Standards

Back side of Panel



Module Design

Cell Type	Mono-crystalline; 3 bus bar
Cell configuration	32 (156 x 156mm)
Dimensions	1663 x 997 x 42mm
Weight	15 - 30kg
Frame	Extruded and anodized aluminum profile
Solar glass	3.2mm, tempered, low iron, highly transparent Safety glass
Encapsulation	Glass-EVA-PV cells-EVA-back sheet
Junction box	3 bypass diodes; cable 1000mm – 4mm ² (12 AWG); connectors; IP65; dimensions 110*115mm
Static Surface Load	2400Pa
Max Surface Load	5400Pa
Certifications	IEC 61730; IEC 61215
Module efficiency	up to 17%
Packaging	20 modules per pallet (or as specified)

Note: All modules manufactured by ARTsolar will undergo a sun simulation and will be sorted accordingly in power classes.

ELECTRICAL DATA @ STC

Type 125W_p

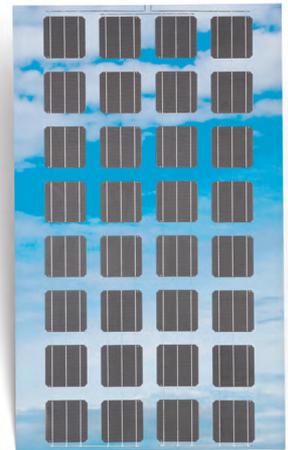
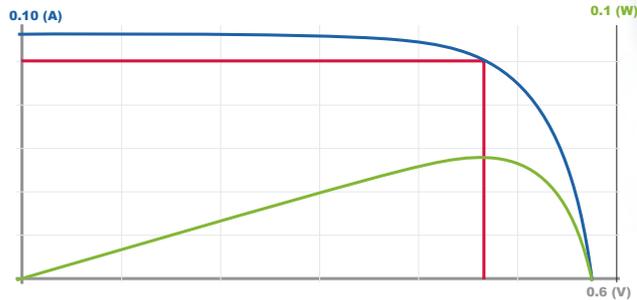
Peak Power Watts - P _{MAX} (Wp)	125W _p
Maximum Power Voltage - V _{MPP} (V)	17V
Maximum Power Current - I _{MPP} (A)	7.35A
Open Circuit Voltage - V _{OC} (V)	20V
Short Circuit Current - I _{SC} (A)	8.9A
Reverse Current - I _R (A)	18A
Operating Temperature - (°C)	-40<T<85°C
Normal Operating Cell Temperature - (N _{OC} T)	43<T<47°C
Temperature Coefficient - (α)	0.04% / °C
Temperature Coefficient - (β)	-0.33% / °C
Maximum System Voltage - (V)	1000V
Fuse Ratings - (A)	15A

Notes:

ARTsolar gives a +5/-0W_p labelling of the power output.

Hence, the average of the measured V_{mpp} and I_{mpp} values in the power class are slightly higher than the minimum power output.

Intensity (W / m ²)	V _{mpp} (%)	I _{mpp} (%)
800	-0.3	-10
600	-1.94	-50
400	-3.91	-70
200	-6.06	-80



Dimensions

All dimensions in mm. For more details see installation manual. Exact terms and conditions subject to contract. Specifications and design subject to change without notice. Errors and mistakes accepted

Certifications

The modules have passed the IEC61730 and IEC61215 certification procedure and undergo a periodic inspection by TÜV Rheinland

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