

High Quality PV Modules

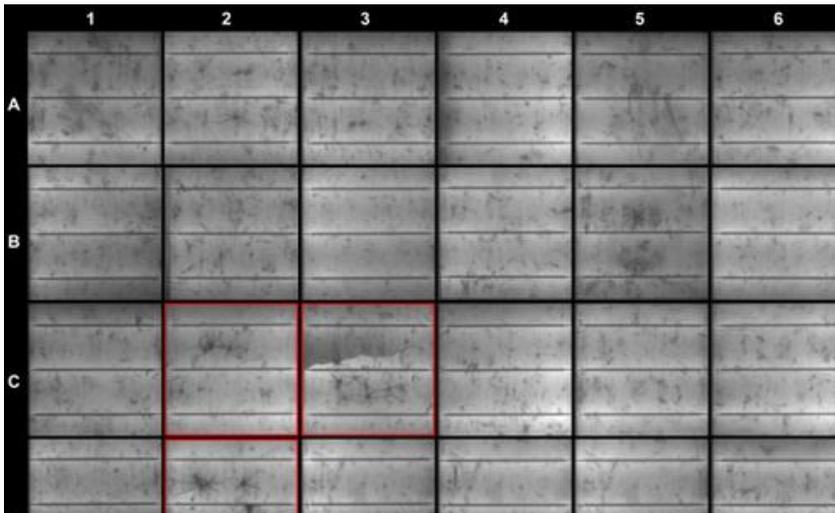
250 to 315Wp locally assembled solar panels

ARTsolar's BYD modules are assembled in South Africa under license in Durban to exacting standards for the 86MW Prieska Mulilo Solar plant in the Northern Cape.



Testing makes your modules safer and perform better

To make sure individual PV cells are not cracked during manufacturing, they are EL tested with infrared light (see example below) to look for micro cracks just before packing and dispatch. Unfortunately imported modules then undergo export handling in Asia, long distance shipping and import handling to reach South Africa. Local warehouses and resellers do not have the sophisticated EL test equipment and so sell these panels on 'as is' because the cracks are not visible to the naked eye, but do degrade performance later in the modules life. This degradation is normally excluded from the warranty as it is assumed to be 'client induced'.



ARTsolar EL tests all locally assembled modules before framing and again directly before packing in South Africa. Additionally, ARTsolar uses computer vision to spot fine cracks in the cell and remove these from the A grade production.

Earth leak protection is a critical test which confirms that no high voltage DC current can transfer from the electrical section to the module frame. As the frames are bolted to the substructure, this could be lethal if untested modules are used. At ARTsolar this is performed to IEC specifications by semi-automated testing equipment at 3600 volts, more than 3 times the rated panel voltage (see image on right).



The sun-simulation test (left) confirms the power of a module under accurately controlled IEC defined temperature and illumination conditions. ARTsolar uses the industry leading Pasan testing machine which has been proven to provide more accurate power of the module. For the customer's benefit, ARTsolar then rounds the power down the the nearest 5W. So a 319Wp module will be labelled as 315Wp.

These tests all come together in modules that have been financed by Nedbank for one of South Africa's largest PV installations: the 1 x 2km Prieska Mulilo 75MW PV field in the Northern Cape. The same inspections have been performed on the modules now in stock at ARTsolar in Durban.



Modules per order	Price
1 - 25 +/- 300W - 7,8kW	R5.35/Wp
26+ +/- 8 kW - 24kW	R5.05/Wp (1 pallet or more)
78+ +/- 24.5kW & over	R4.95/Wp (3 pallets or more)
300+ +/- 100kW & over	Please contact us.

Delivered to Johannesburg: R1480 for 1 pallet of 26 modules.

These promotional prices are valid for a limited time and limited quantity. Discounts are calculated on module quantity rather than power ordered. 60 and 72 cell Polycrystalline PV modules (solar panels) in stock from 250Wp to 315Wp. Limited volumes of B-grade modules are available at reduced prices.

Offer is for a limited time and on limited volumes.

The lowest prices on Victron accessories, chargers & inverters

Victron Accessories	Ex Vat
BlueSolar PWM-Light Charge Controller 12/24V-10A	R390
Digital Multi Control 200/200A	R1,730
12 Volt plug (cigarette plug with 16A fuse)	R170
M6 eyelet connector (with 30A ATO fuse)	R80
Clamp connector (with 30A ATO fuse)	R150
2 meter extension cable	R100
BlueSolar MPPT 100/15 (12/24V-15A) Retail	R1,420
BlueSolar MPPT 75/15 (12/24V-15A) Retail	R1,170
Cyrix-ct 12/24V-120A Battery Combiner Kit Retail	R1,070
Wireless AC sensor, single phase	R1,610
AC Current sensor	R520
Battery Protect 12/24V-100A	R1,100
Battery Protect 12/24V-50A	R800
VE.Direct to USB interface	R750
Filax 2 Transfer Switch CE 230V/50Hz-240V/60Hz	R5,030
RJ45 UTP Cable 1,8 m, blue	R190
BMV 702 Temperature sensor	R230
VE.Direct Cable 1,8m (one side Right Angle conn)	R190
VE.Direct Cable 1,8m	R190
VE.Direct to USB interface	R750
VE.Direct Bluetooth LE dongle	R1,730

Victron Inverters/ Chargers	Ex Vat
Multiplus 24v 3000W 70A	R22,560
EasySolar 24v 1600VA 40A MPPT 100/50	R17,850



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