



Virtual Sense POWER

tel: +27 21 858 1202

e-mail: sales@virtualsense.co.za

web: www.virtualsense.co.za

Solar Panels

Our Advantage:

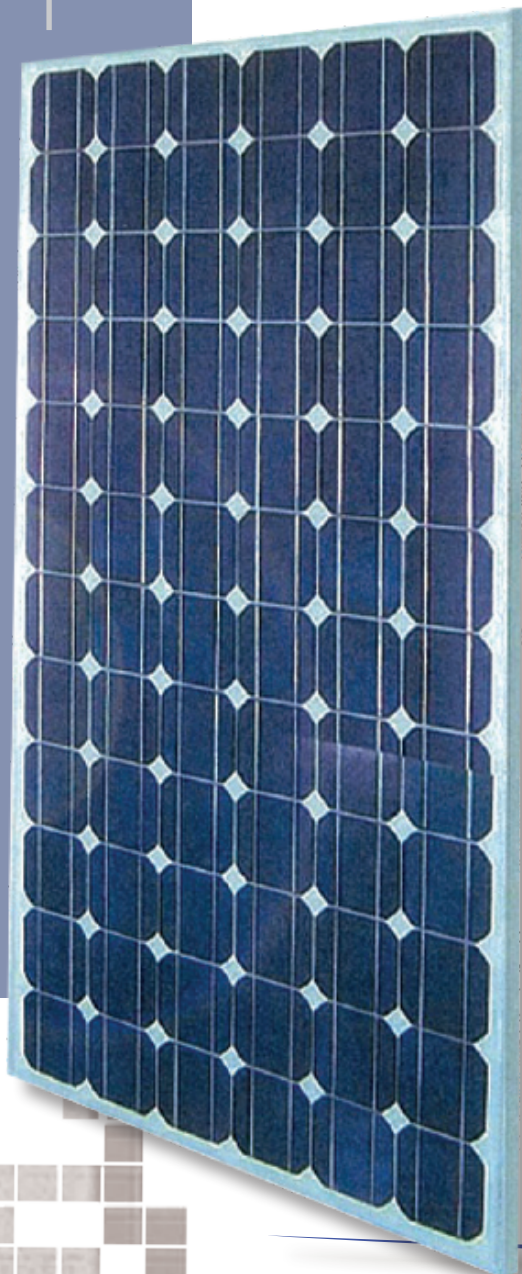
- Flexible and customized designed glass and frame
- Each module is individually tested to ensure field performance meets or exceeds specifications.
- Low maintenance junction box with diodes and water proof .
- High packing density and white back skin for improved module efficiency.

Our Guarantee:

- 2 years of warranty for workmanship
- 10 years on warranty on 90% of minimal Performance.
- 25 years on warranty on 80% of minimal Performance.

Mechanical Characteristics:

- Dimensions - Length 1575mm Width 825mm Depth 48mm
- Weight - 17 kg
- Solar Cells - 72 cells (125mm x125mm) in a 6x12 matrix connected
- Junction Box - U version junction-box with 4-6 connection block , with 4mm² diameter cable,length is 90cm at least.
- Diodes - Three 10A ,10V bypass diode included
- Construction - Front: High transmission 3.2mm tempered glass; Back - Tedlar, Encapsulation EVA.
- Frame - clear anodized aluminium alloy tape 6063T6 universal frame with silver colour (other colours available)





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Technical Data of Selected Panels: (other panel sizes available)

Power Rating Pmpp	Maximum Power current Impp	Maximum Power Voltage Ump	Short Circuit Current Isc	Open Circuit Voltage Uoc	Efficiency
165W	4.53A	36.36V	4.93A	43.92V	14.62%
170W	4.63A	36.36V	4.96A	44.28V	15%
175W	4.86A	36.38V	5.36A	45.03V	15.22%

* For any panel size part number is "XXXW-P" where "XXX" is the wattage, e.g. 165W-P

* Various Size Voltage Regulators also available, use "XXA-R" as the part number where "XX" is the current, e.g. 30A-R

Qualification Test Parameters:

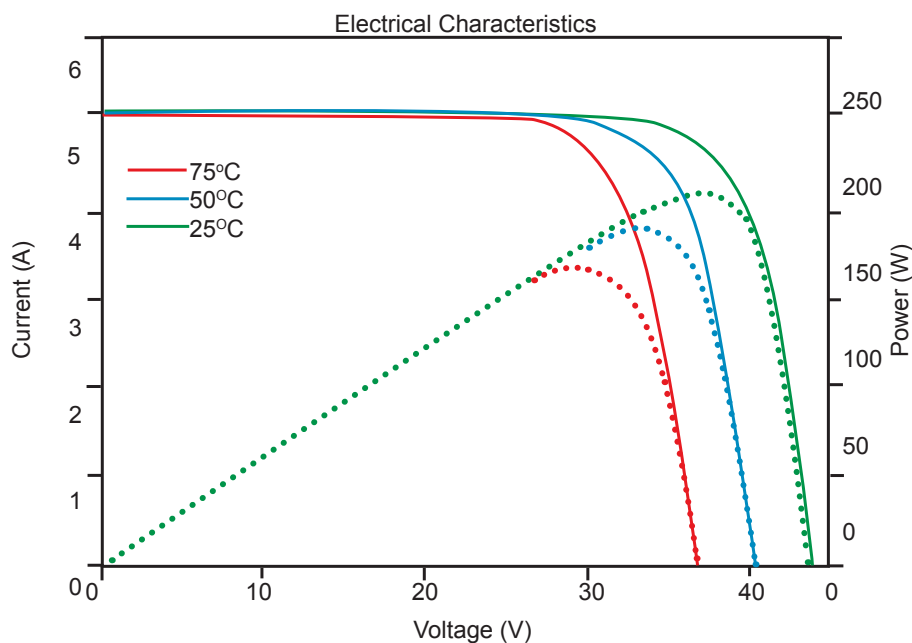
Temperature cycling range-40°C 85°C

Damp heat.....85%RH

Static load front and back.....2400 pascals

Front loading.....5400 pascals

Hail impact.....25mm stainless ball at 23m /s



At STC (Standad Test Conditions). 1000W/m
2.25°C cell temperature, AM1.5 spectrum

Certificates:

- IEC 61215/TUV
- ISO 9001:2000 approved
- CE approved
- UL- Listing 1703 (pending)



ISO9001-2000

