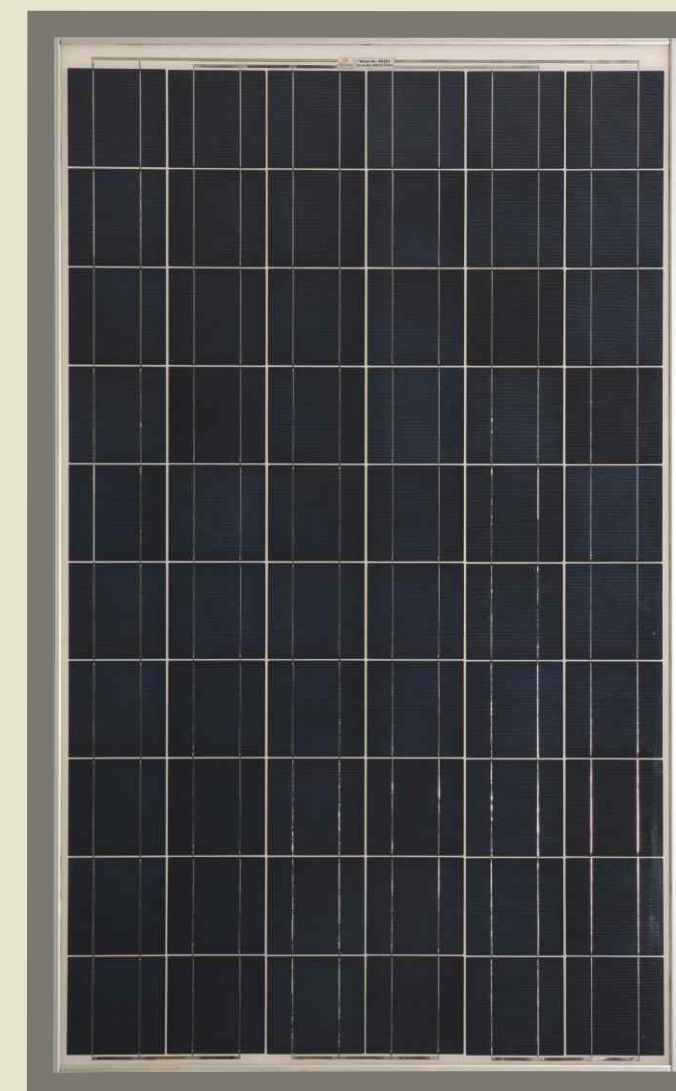


# RS210

## Photovoltaic Module

Modules are manufactured in a state-of-the-art, automated and ISO 9001:2008 certified manufacturing facility. The modules are designed as per IEC 61215, IEC 61730 and UL 1703 standards.



### High Efficiency :

- Usage of high efficient cells
- Acid texturised solar cells
- Fine silver grid lines
- Fully covered back surface field
- Optimized anti reflective coating on cells
- One side textured, tempered glass increases light absorption & efficiency
- Tight tolerance in power  $\pm 3\%$

### Reliability Aspects :

- Maximum system voltage of 1000V
- High corrosion resistant frame
- Lower slope of module frame
- Proven Glass /EVA/Backsheet encapsulation technology
- Three layered structured backsheet
- Double sided polyurethane tape for frame fixing
- High tensile structure of frame
- Universal frame with anywhere mounting

### Safety Aspects :

- Weather proof junction box with bounced clips
- Highly reliable bypass diodes
- Lock mechanism equipped connectors
- High current rated insulated cables

TYPICAL ELECTRICAL PARAMETERS		MECHANICAL PARAMETERS	
Nominal Power at STC, Pmax	210W	Cell type & Size	60 Multi Crystalline Si solar cells & 156mm x 156mm
Voltage at maximum Power Point, Vmp	29.2V	Module Overall Dimensions	1662mm x 997mm x 43mm
Current at maximum Power Point, Imp	7.2A	Weight	18.6 kg
Open circuit voltage, Voc	36.2V	Mounting Arrangement	Mountable across the length
Short Circuit Current, Isc	7.95A	Junction Box	IP 65 protected 4 contact rail
NOCT	47 $\pm$ 2°C	Type of Output Terminal connectors & Cable	25A/1000VDC rated, IP67, 12AWG, 1.0 mtr Long XLPO insulation cable
Maximum System Voltage	1000 VDC	Bypass-Diodes	SB1240 (12A) X 3pcs
Maximum series fuse rating	10A	Front glass	One side textured toughened glass of 3.2mm thick
Operating and Storage Temperature	-40°C to +85°C	Back sheet	Fluoropolymer, PET based composite laminate
Temperature Coefficient of Pmax	-0.50 %/K	Frame	Al 6063 alloy with anodisation with grounding provision
Temperature Coefficient of Voc	-0.35 %/K	Protection class	A
Temperature Coefficient of Isc	+0.07 %/K		

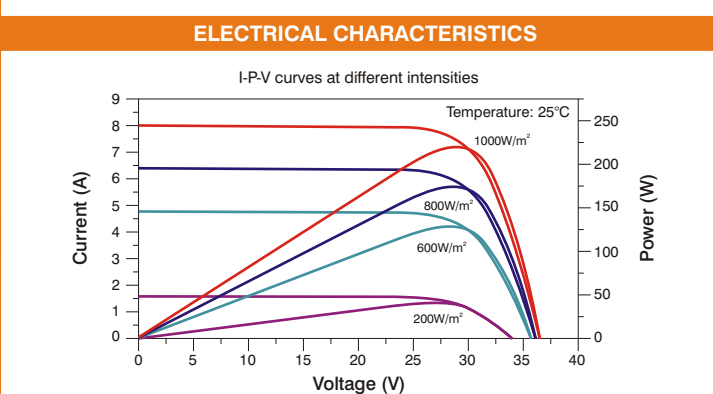
PERFORMANCE AT 800W/M <sup>2</sup> , NOCT, AM1.5	
Nominal Power, Pmax	155W
Voltage at maximum Power Point, Vmp	25.5V
Current at maximum Power Point, Imp	6.1A
Open circuit voltage, Voc	33.1V
Short Circuit Current, Isc	6.5A

Note: The Performance of the solar modules is measured at STC : Irradiance 1000 W/m<sup>2</sup>, Module Temperature at 25°C and AM 1.5G spectrum. The tolerance in Pmax is  $\pm 3\%$

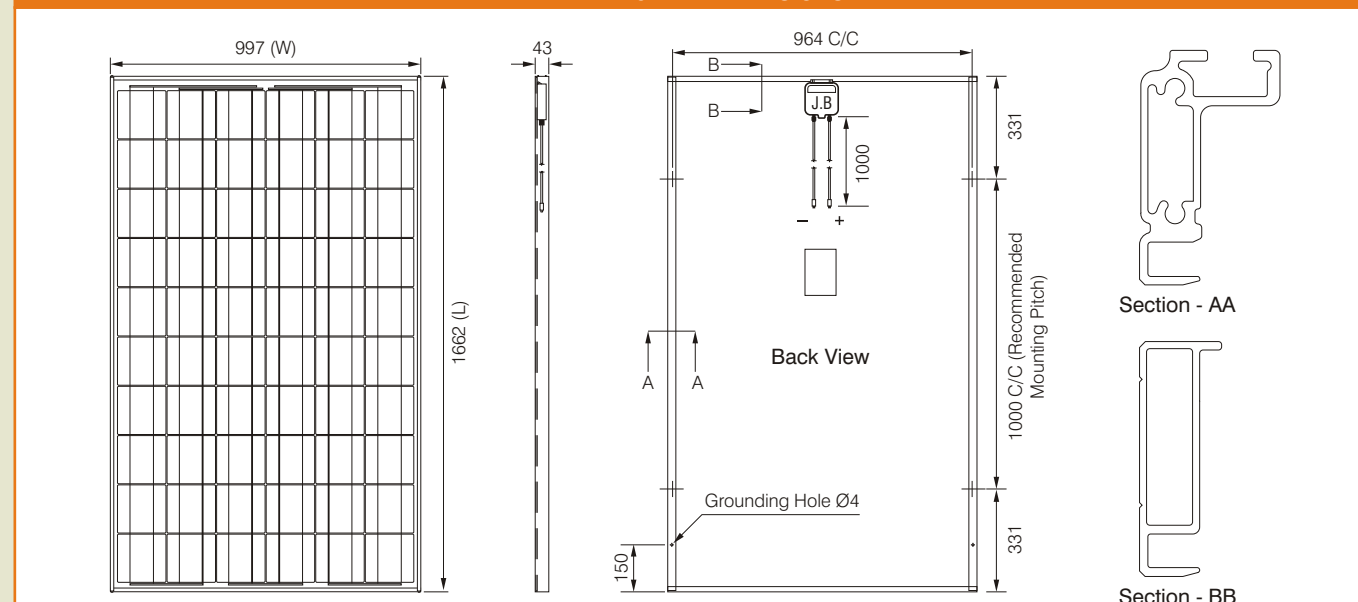
### WARRANTY

- 2 year limited product warranty\*
- 10 years limited warranty\* for minimum 90% power output
- 25 years limited warranty\* for minimum 80% power output

\* please ask for detailed warranty terms



### DRAWING AND DIMENSIONS



The modules are also available in similar configuration for 200, 205, 215 and 220 watt of peak nominal power at STC