



## Polycrystalline - 60 cells



Only positive tolerance – delivers more than rated wattage



High efficiency at 17%



PID resistant



Manufacturing facility vetted by SolarBuyer for OPIC \*



Advanced German technology for stringing and lamination



Electroluminescence tested to ensure micro-crack free panels



Operating since 2006



\* OPIC: Overseas Private Investment Corporation (USA)



## Polycrystalline Modules - 60 cells

### Electrical Specifications

Rated Power (STC) *	280	275	270	265	260
Module Efficiency	17.07	16.78	16.48	16.17	15.87
Open Circuit Voltage - Voc (Volts)	38.9	38.7	38.3	37.9	37.5
Short Circuit Current - Isc (Amps)	8.82	8.75	8.66	8.56	8.50
Max Power Voltage - Vmp (Volts)	32.5	32.2	31.9	31.4	31.2
Max Power Current - Imp (Amps)	8.62	8.58	8.49	8.44	8.36

\* Tolerance of 0 ~ +4

### Temperature Co-efficient

Open-Circuit Voltage	-0.34% / °C
Short-Circuit Current	+0.05% / °C
Rated Power	-0.4% / °C
NOCT (Normal Operating Temperature)	46°±2°C

### Mechanical Data

Number of Cells	60 Cells - 156.75mm(6.17in) x 156.75mm(6.17in)
Dimensions in mm: LxW xH	1655mm(65.15in) x 990mm(38.97in) x 35mm(1.37in)
Mounting Dimensions in mm: LxW	1200mm(47.24in) x 954mm(37.55in)
Weight	18 Kgs(39.68 Lbs)
Front Glass	3.2mm/0.12in thick, toughened anti-reflective coated glass, high transmission
Encapsulant	Ethylene Vinyl Acetate (EVA)
Back Sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP 67
Number of Bypass Diodes	3 Diodes
Cables	4 Sq mm(0.15in), 1.2 Meter(47.24in) Length Cable
Connectors	MC4 Compatible

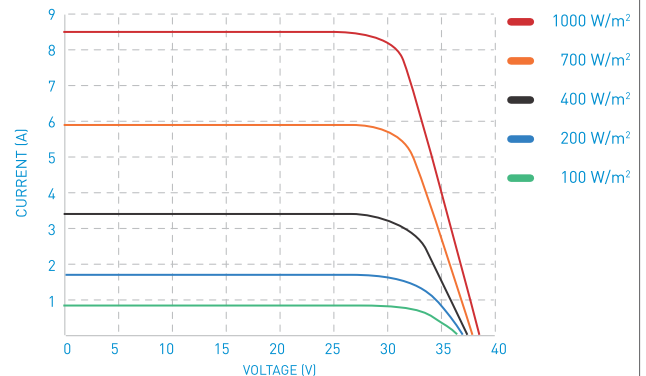
### Permissible Operating Conditions

Operating temperature range	-40° C to 85° C
Max. System Voltage	1000V / 1500V
Max. Series Fuse Rating	15A
Limiting Reverse Current	15A
Maximum Wind Load	2400 Pa
Maximum Snow Load	5400 Pa
Resistance Against Hail	Maximum 25mm/0.98 Dia with Impact speed of 83 km/h
Protection Class	Class II

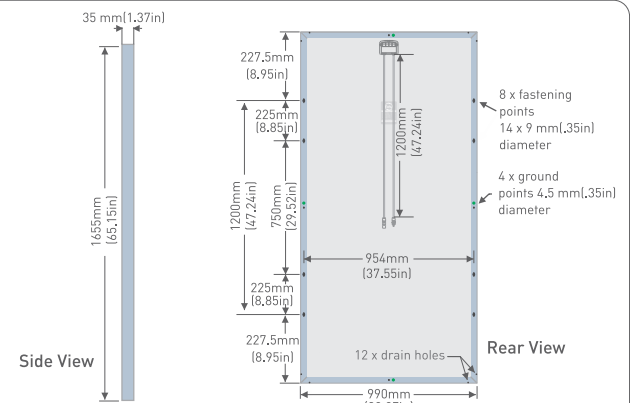
### Warranty and Certificates

Product Warranty	10 years
Linear Power Warranty	90% up to 10 Years, 80% up to 25 Years
Certificates	IEC 61215, IEC 61730, IEC 61701, IEC 62804

Note: 1) Rated power data at standard test conditions (STC), E = 1000 W/m<sup>2</sup>, TC = 25° C, AM = 1.5  
2) Specifications are subject to change without notice.



Typical IV Curves



Module Dimension Drawing

### Packaging Information

No. of panels per pallet	28 nos
No. of pallets per container (40'HC)	24 nos
Total no. of panels per container (40'HC)	672 nos



Orb's State of the Art PV Plant in Bangalore