



## Orb Energy's Polycrystalline PV Modules 72 cells

### Built to maximise generation, reduce power losses



With only positive tolerance, panels deliver higher than rated wattage



PID resistance protects from leakages and ensures longer life and reliable power generation, backed by 25 year warranty



17% efficiency



### Backed by best-in-class technology



Manufacturing facility vetted by PI Berlin for USA's DFC \*



Orb Energy uses advanced German technology for stringing and lamination



Electroluminescence tested to ensure micro-crack free panels



\* DFC: U.S. International Development Finance Corporation

Y O U ' V E G O T T H E P O W E R



## Polycrystalline Modules - 72 cells

### Electrical Specifications

Rated Power (STC) *	325	330	335
Module Efficiency	16.29%	16.54%	16.79
Open Circuit Voltage - Voc (Volts)	46.00	46.15	46.30
Short Circuit Current - Isc (Amps)	9.06	9.17	9.28
Max Power Voltage - Vmp (Volts)	37.55	37.72	37.86
Max Power Current - Imp (Amps)	8.66	8.75	8.85

\* 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	72 Cells - 156.75mm(6.17in)x156.75mm(6.17in)
Dimensions in mm: LxW xH	1995mm(78.5in) x 1000mm(39.3in) x 35mm(1.4in)
Mounting Dimensions in mm: LxW	1200mm(47.2in) x 964mm(37.9in)
Weight	22.5 Kgs (49.60 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

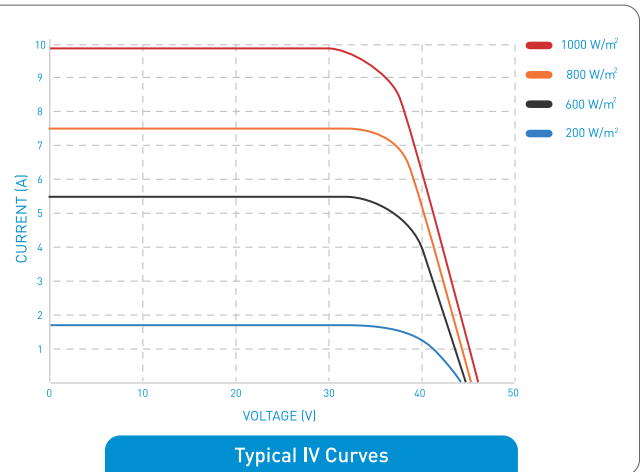
### Permissible Operating Conditions

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

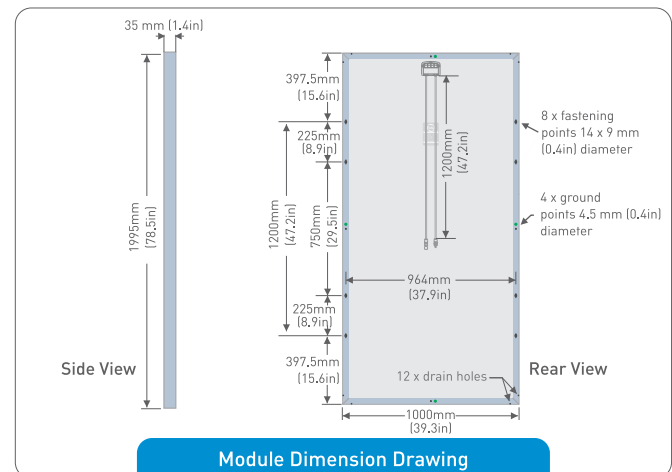
### Warranty and Certificates

Product Warranty	10 years
Linear Power Warranty	Not less than 80% of the minimum peak power by end of 25th year
Certificates	IS 14286, 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)	22 nos
Total no. of panels per container (40'HC)	616 nos



Orb's State of the Art PV Plant in Bangalore

**Call us: + 91 9900520505 Email: sales@orbenergy.com Web: www.orbenergy.com**  
Orb Energy, 95 Digital Park Road, 2nd Stage, Yeshawanthapura, Bangalore 560022, India