



Monocrystalline - 60 cells



Only positive tolerance – delivers more than rated wattage



High efficiency at 19%



Manufacturing facility vetted by Solar Buyer for OPIC loan



Advanced German technology for stringing and lamination



PID resistant



Improved energy production even at high temperatures



Electroluminescence tested to ensure micro-crack free panels



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



Monocrystalline Modules - 60 cells

Electrical Specifications

Rated Power (STC) *	300	310	315
Module Efficiency	18.31	18.92	19.23
Open Circuit Voltage - Voc (Volts)	41.10	41.20	41.25
Short Circuit Current - Isc (Amps)	9.60	9.65	9.68
Max Power Voltage - Vmp (Volts)	34.80	34.90	35.00
Max Power Current - Imp (Amps)	8.63	8.90	9.00

* Tolerance of 0 ~ +4

Thermal Data

Open-Circuit Voltage	-0.32% / °C
Short-Circuit Current	+0.04% / °C
Rated Power	-0.042% / °C
NOCT (Normal Operating Temperature)	46±2°C

Mechanical Data

Number of Cells	60 Cells - 156.75mm x 156.75mm
Dimensions in mm in: L x W x H	1655mm x 990mm x 35mm
Mounting Dimensions in mm: L x W	1200mm x 954mm
Weight	18 Kgs
Front Glass	3.2mm thick, toughened anti-reflective coated glass, high transmission
Encapsulant	Ethylene Vinyl Acetate (EVA)
Back Sheet	White/Black-cell side (optional)
Frame	Anodized Aluminum Alloy Silver/Black (optional)
Junction Box	IP 67
Number of Bypass Diodes	3 Diodes
Cables	4 Sq mm, 1.2 Meter Length Cable
Connectors	MC4 Compatible

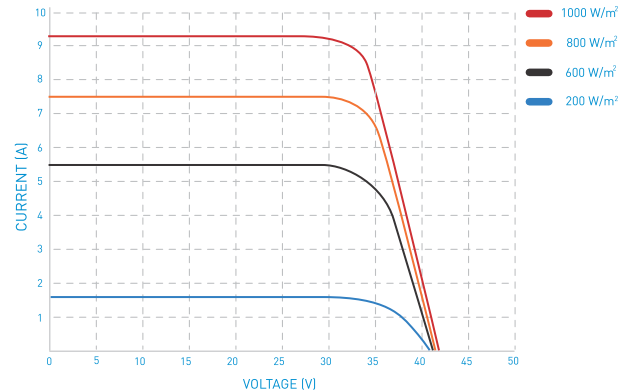
Permissible Operating Conditions

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

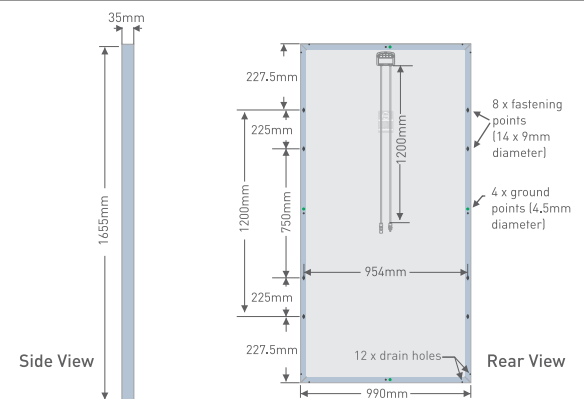
Warranty and Certificates

Product Warranty	10 years
Linear Power Warranty	90% up to 10 Years, 80% up to 25 Years

Note: 1) Rated power data at standard test conditions (STC), E = 1000 W/m², 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