



Mono PERC - 60 cells



Mono PERC technology delivers high efficiency > 20%



Only positive tolerance – delivers more than rated wattage



PID resistant



Manufacturing facility regularly vetted by PI Berlin



Advanced German technology for stringing and lamination



Electroluminescence tested to ensure micro-crack free panels



Operational since 2006



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



Mono PERC Modules - 60 cells

Electrical Specifications

Rated Power (STC) *	320	325	330
Module Efficiency	19.12%	19.41%	19.71%
Open Circuit Voltage - Voc (Volts)	41.40	40.50	40.60
Short Circuit Current - Isc (Amps)	9.90	10.00	10.10
Max Power Voltage - Vmp (Volts)	33.95	34.05	34.15
Max Power Current - Imp (Amps)	9.43	9.54	10.10

* tolerance of 0 - +4

* Rated power data at standard test conditions (STC), E = 1000 W/m², TC = 25° C, AM = 1.5

Temperature Co-efficient

Open-Circuit Voltage	-0.2588% / °C
Short-Circuit Current	0.0488% / °C
Rated Power	-0.3393% / °C
NOCT (Normal Operating Temperature)	46±2°C

Mechanical Data

Number of Cells	60 Cells - 158.75mm (6.2in) x 158.75mm (6.2in)
Dimensions in mm in: L x W x H	1674mm (65.90in) x 1000mm (39.3in) x 35mm (1.37in)
Mounting Dimensions in mm: L x W	1200mm (47.24in) x 964mm (37.95in)
Weight	19.5 Kgs (42.99014 Lbs)
Front Glass	3.2mm(0.12in) 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(0.15in), 1.2 Meter(47.24in) Length Cable
Connectors	MC4 Compatible

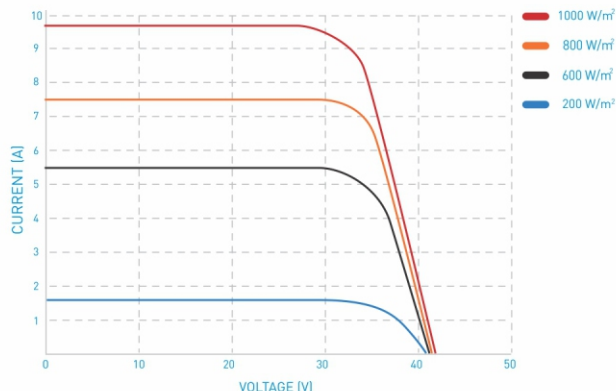
Permissible Operating Conditions

Operating Temperature Range	-40° C to 85° C
Max. System Voltage	1500V
Max. Series Fuse Rating	20A
Maximum Wind Load	5400 Pa
Maximum Snow Load	5400 Pa
Application Class	Class A (Safety Class II)

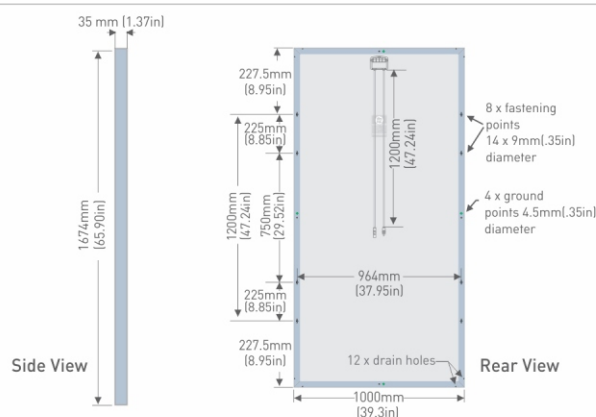
Warranty and Certificates

Product Warranty	10 years
Linear Power Warranty	Minimum 80% after 25 years
Certificates	IS 14286, UL 1703, IEC 61215, IEC 61730

Note: 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