

## TECHNICAL SPECIFICATIONS - WAAREE PV MODULES

Electrical Characteristics *	WS-210 / WU-210	WS-220 / WU-220
Power (Pm) in Watts (nominal)	210	220
Open Circuit Voltage (Voc) in Volts	36	36
Short Circuit Current (Isc) in Amps	7.78	8.15
Voltage at Maximum Power (Vmp) in Volts	29	29
Current at Maximum Power (Imp) in Amps	7.24	7.59
Maximum System Voltage	1000V / 600V	
Physical Parameters (Refer drawing below)		
Solar Cells per Module (Units)	60	
Length x Width x Thickness (L x W x T)	mm(Inches) 1660 X 990 X 42 (65.4 x 39.0 x 1.7)	
Mounting Holes Pitch (Y) - mm	mm(Inches) 1000 (39.4)	
Mounting Holes Pitch (X) - mm	mm(Inches) 945(37.2)	
Area - Sq. Meter / Area - Sq. ft.	1.643(17.67)	
Junction Box	IP 65 with Diodes	
Weight - Kg	20.50	
Container Packing Details	40 feet Container - 644 Modules 20 feet Container - 300 Modules	
Certifications: IEC 61215 / IEC 61730 -1 / IEC 61730 -2/ TÜV Safety Class II & ETL Mark for UL 1703 approval (USA & CANADA); CEC listed		

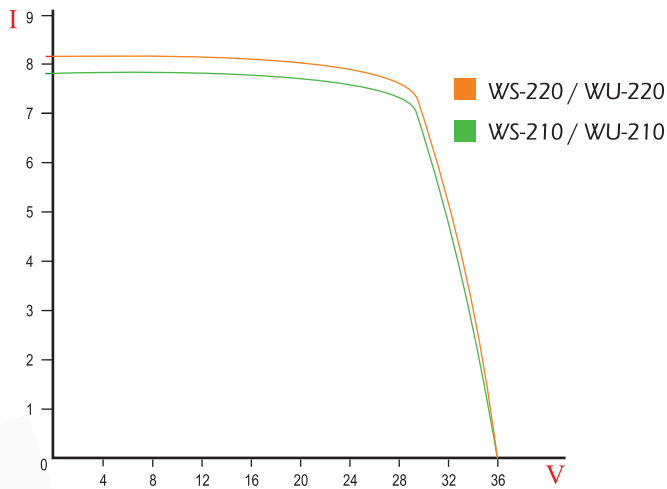


\*Measurement Tolerance on Power +/- 3%. All electrical parameters specified at STC : 25°C cell temperature; 100mW/cm<sup>2</sup> irradiance; AM 1.5

### Other Characteristics

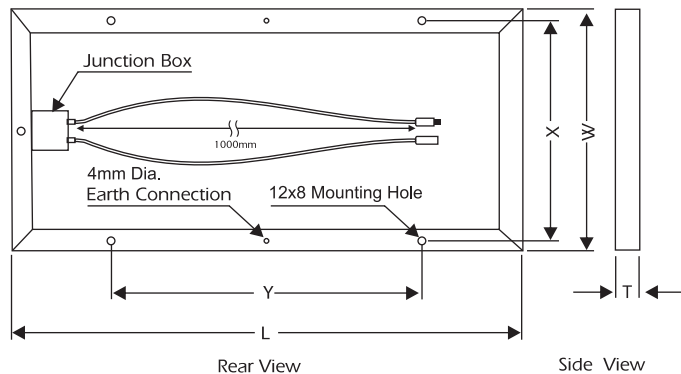
- Type of Cell : Mono / Multi Crystalline Silicon
- Front Face : Tempered Glass (Low Iron)
- Encapsulate : Ethylene Vinyl Acetate
- Frame : Anodized Aluminium
- Junction Box : Weather Proof Nylon 6
- Temp. Coefficients : Voltage -0.123 V / °K  
Current +4.4 mA / °K  
Power -0.47% / °K
- NOCT : 47+/-2 °C

- All modules of 180Wp and above are supplied with pre-fixed cables and connectors.
- All modules are supplied with screwless Hollow section frames.
- Warranty : Up to 25 Years Limited Extended Warranty
- Due to constant product modifications, WAAREE reserves the right to amend the above specifications without prior notice.



### Mounting Details

All dimensions in mm and tolerances ±2mm



WEPL/WS-220/Rev-1/Feb. 2010

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