

### TECHNICAL SPECIFICATIONS - WAAREE PV MODULES

Electrical Characteristics *	WS-120	WS-125	WS-130	WS-140	WS-150	WS-160
Power (Pm) in Watts (nominal)	120	125	130	140	150	160
Open Circuit Voltage (Voc) in Volts	21.6	21.6	21.7	21.7	36	36
Short Circuit Current (Isc) in Amps	8.1	8.4	8.8	9.5	5.8	6.2
Voltage at Maximum Power (Vmp) in Volts	17	17	17	17	29	29
Current at Maximum Power (Imp) in Amps	7.08	7.38	7.67	8.26	5.18	5.53
Maximum System Voltage	1000V	1000V	1000V	1000V	1000V	1000V
Physical Parameters (Refer drawing below)						
Solar Cells per Module (Units)	36	36	36	36	36	36
Length x Width x Thickness (L x W x T) mm	1490 x 655 x 35	1490 x 655 x 35	1490 x 655 x 35	1490 x 655 x 35	1280 x 990 x 42	1280 x 990 x 42
Weight - Kg	12	12	12	12	15	15
Mounting Holes Pitch (Y) - mm	900	900	900	900	900	900
Mounting Holes Pitch (X) - mm	611	611	611	611	949	949
Area - Sq. M	0.98	0.98	0.98	0.98	1.27	1.27
Junction Box	4 T & 2 diodes	4 T & 2 diodes	4 T & 2 diodes	4 T & 2 diodes	4 T & 3 diodes	4 T & 3 diodes

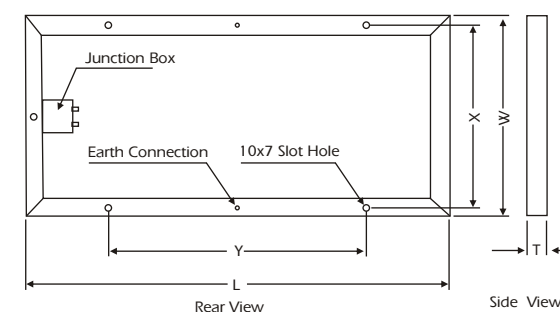
\*Measurement Tolerance on Power +/- 5%. All electrical parameters specified at STC : 25°C cell temperature; 100mW/cm<sup>2</sup> irradiance; AM 1.5

### Other Characteristics

- |                    |  |   |
|--------------------|--|---|
| Type of Cell       | : Mono / Multi Crystalline Silicon                                   | • Certifications: IEC 61215 / IEC 61730 -1 / IEC 61730 – 2 / TUV Safety Class II  |
| Front Face         | : Tempered Glass (Low Iron)  | • The Standard range of modules is supplied without diodes. However, diodes can be provided on specific customer request at extra cost. |
| Encapsulate        | : Ethylene Vinyl Acetate   | • All modules of 120Wp and above are supplied with screw-less hollow section frames.  |
| Frame              | : Anodized Aluminium   | • Due to constant product modifications, WAAREE reserves the right to amend the above specifications without prior notice.              |
| Junction Box       | : Weather Proof Nylon 6  | • Warranty : Up to 25 Years Limited Extended Warranty   |
| Temp. Coefficients | : Voltage -0.123 V / °K<br>Current +4.4 mA / °K<br>Power -0.47% / °K |   |
| NOCT               | : 47+/-2 °C  |   |

### Mounting Details

All dimensions in mm and tolerances ±2mm



WEPL/WS-160/Rev-2/Jan.09



### WAAREE Energies Pvt. Ltd.

H.O. : Mumbai, India    Factory : Surat, India  
Tel.: +91-22-66963030    Fax : +91-22-26873613    Email : infosolar@waaree.com

