

TECHNICAL SPECIFICATIONS - WAAREE PV MODULES

Electrical Characteristics *	WS-40	WS-50	WS-60	WS-70	WS-75	WS-80	WS-90	WS-100	WS-110	WS-115
Power (Pm) in Watts (nominal)	40	50	60	70	75	80	90	100	110	115
Open Circuit Voltage (Voc) in Volts	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
Short Circuit Current (Isc) in Amps	2.7	3.4	4.1	4.7	5.1	5.4	6.1	6.8	7.4	7.8
Voltage at Maximum Power (Vmp) in Volts	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Current at Maximum Power (Imp) in Amps	2.36	2.95	3.54	4.13	4.43	4.72	5.31	5.90	6.49	6.79
Maximum System Voltage	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Physical Parameters (Refer drawing below)										
Solar Cells per Module (Units)	36	36	36	36	36	36	36	36	36	36
Length x Width x Thickness (L x W x T) mm	535 x 655 x 34	610 x 655 x 34	770 x 655 x 34	770 / 890 x 655 x 34	890 x 655 x 34	890 x 655 x 34	1150 x 655 x 34	1150 x 655 x 34	1325 x 655 x 34	1325 x 655 x 34
Weight - Kg	4.0	4.7	6.0	6.0 / 7.0	7	7	8.5	8.5	10.5	10.5
Mounting Holes Pitch (Y) - mm	200	300	510	510	510	510	900 & 510	900 & 510	900	900
Mounting Holes Pitch (X) - mm	611	611	611	611	611	611	611	611	611	611
Area - Sq. M	0.35	0.40	0.50	0.50 / 0.58	0.58	0.58	0.76	0.76	0.87	0.87
Junction Box	4 terminals	4 terminals	4 terminals	4 terminals	4 terminals	4 terminals	4 terminals	4 terminals	4 terminals	4 terminals

*Measurement Tolerance on Power +/- 5%. All electrical parameters specified at STC : 25°C cell temperature; 100mW/cm² irradiance; AM 1.5

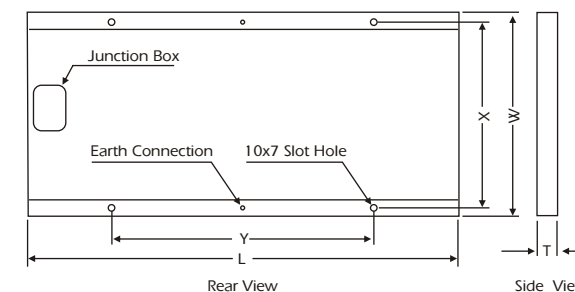
Other Characteristics

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

- Certifications: IEC 61215 / IEC 61730 -1 / IEC 61730 - 2 / TUV Safety Class II
- The Standard range of modules is supplied without diodes. However, diodes can be provided on specific customer request at extra cost.
- Due to constant product modifications, WAAREE reserves the right to amend the above specifications without prior notice.
- Warranty : Up to 10 Years Limited Extended Warranty

Mounting Details

All dimensions in mm and tolerances ±2mm



WEPL/WS-115/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

