

TECHNICAL SPECIFICATIONS - WAAREE PV MODULES

Electrical Characteristics*	WS-230	WS-240	WS-250A	WS-250 B	WS-250	WS-280	WS-290	WS-300
Power (Pm) in Watts (nominal)	230 (++)	240 (++)	250 (++)	250 (++)	250 (++)	280 (++)	290 (++)	300 (++)
Open Circuit Voltage (Voc) in Volts	36	36	43	36	43	43	43	43
Short Circuit Current (Isc) in Amps	8.52	8.89	7.75	9.25	7.75	8.68	8.99	9.30
Voltage at Maximum Power (Vmp) in Volts	29	29	35	29	35	35	35	35
Current at Maximum Power (Imp) in Amps	7.93	8.28	7.14	8.62	7.14	8.00	8.28	8.57
Maximum System Voltage (in Volts)	1000	1000	1000	1000	1000	1000	1000	1000
Solar Cells per Module (Units)	60	60	72	60	72	72	72	72
Length x Width x Thickness (L x W x T) mm	1660 x 990 x 42	1660 x 990 x 42	1660 x 990 x 42	1660 x 990 x 42	1960 x 990 x 42	1960 x 990 x 42	1960 x 990 x 42	1960 x 990 x 42
Weight- Kg	20.50	20.50	20.50	20.50	29	29	29	29
Mounting Holes Pitch (Y)-mm	1000	1000	1000	1000	1060	1060	1060	1060
Mounting Holes Pitch (X)-mm	942	942	942	942	942	942	942	942
Area- Sq. M	1.643	1.643	1.643	1.643	1.940	1.940	1.940	1.940
Junction Box	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes	IP65 / 4T with 3 diodes

Certifications: IEC 61215 (Ed2) / IEC 61730 -1 / IEC 61730 - 2/ TÜV Safety Class II & ETL Mark for UL 1703 approval (USA & CANADA); CEC listed

Modules are with +ve tolerance only

*All electrical parameters specified at STC: 25°C cell temperature; 1000 W/m² irradiance; AM 1.5

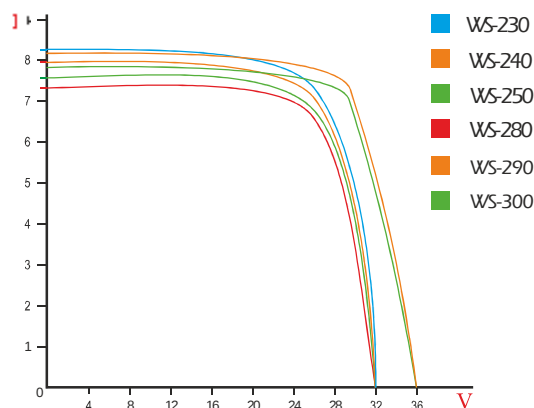
Other Characteristics

Type of Cell	: Crystalline Silicon Cells
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

Warranty

- 5 Years Product Warranty*
- 10 Years : 90% of Power
- 20 Years : 80% of Power

* Extended Warranty

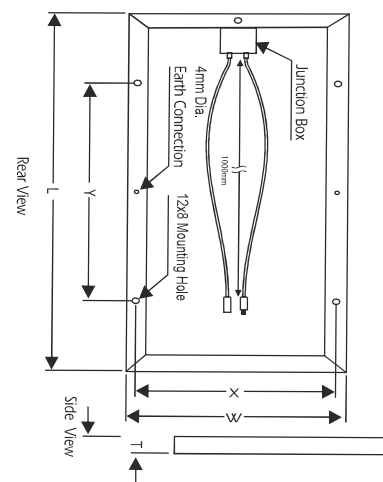


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Mounting Details

All dimensions in mm and tolerances ±2mm



Sun Power Forever™

