



W2900M – Multicrystalline SPV Module



- Module Efficiency $\geq 15.2\%$ ensures optimum performance even in diffused light conditions.
- Cell Efficiency $\geq 17.4\%$
- 25 years warranty of electrical performance.
- Calibration modules for output measurement regularly tested at Fraunhofer ISE.
- Integrated manufacturing of cells and modules in a production line guarantees optimum performance.
- ISO 9001:2008 certification ensures consistent product quality.
- Modules are approved for IEC/EN, 61215, IEC/EN 61730 & IEC 61701 standards from various reputed institute like TUV Rehinland.
- Module Fill Factor $\geq 70\%$

Maximum Power	P_{max} (Wp)	290	295	300	305	310	315
Short Circuit Current	I_{sc} (Amp)	8.70	8.80	8.90	8.95	9.02	9.10

Websol Energy System Limited

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W E B E L**S O L A R**

Open Circuit Voltage	V_{oc} (Volt)	44.64	44.90	45.00	45.30	45.5	45.70
Current at Maximum Power	I_{max} (Amp)	8.10	8.15	8.22	8.28	8.41	8.50
Voltage at Maximum Power	V_{max} (Volt)	35.84	36.28	36.60	36.90	36.96	37.15
Maximum System Voltage	Volt	1000 V					
Tolerance		Positive					

Mechanical Specification	W 2900M
Height X Width X Depth (HxWxD)	1956 x 992 x 40 mm
Weight	26Kgs
Junction Box	IP 65 rated junction box with 3 bypass diodes
Cable	Solar Cable minimum 1000 mm length with 4.0 mm ² double insulated cable, multi contact connector
Front Glass	4/3.2 mm thickness, Low Iron, toughened & Tempered High transmittance.
Solar Cells	72 x Multicrystalline Si 6"(156mm x 156mm)
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back Side	Tedlar/PVDF Composite film, clear and white colour
Frame	Anodized Aluminium frame with twin wall profile.
Sealing Arrangement of Frame & Laminate	Application of Silicon Sealant

Permissible Operating Conditions	
Temperature Range	(-40°C To +85°C)
Maximum System Voltage	1000 V
Relative Humidity	100 %
Module Front surface withstand to gusty Wind (as Per IEC 61215)	200 Km/hr.

RFID	Having all the details to comply MNRE Requirement
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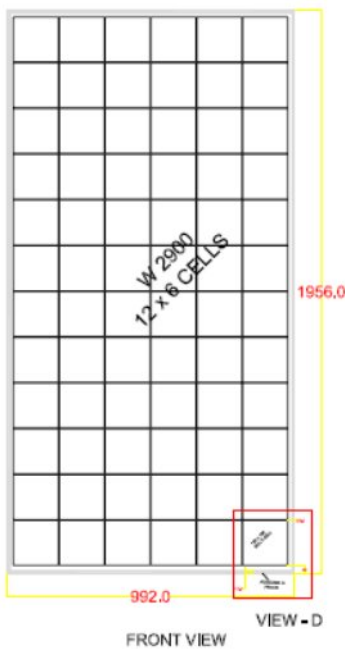
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Drawings (Dimensions in mm)

Warranty against Materials & Workmanship under Normal Service Condition	10 years
Warranty against Power Output	Guaranteed Output of 90% for 12 years and 80% for 25 years

Temperature Coefficients		
Nominal Operating Cell Temperature (NOCT)		45± 2°C
Coefficient of Current	α	0.05% / °C
Coefficient of Voltage	β	-0.35% / °C
Coefficient of Power	γ	-0.40% / °C



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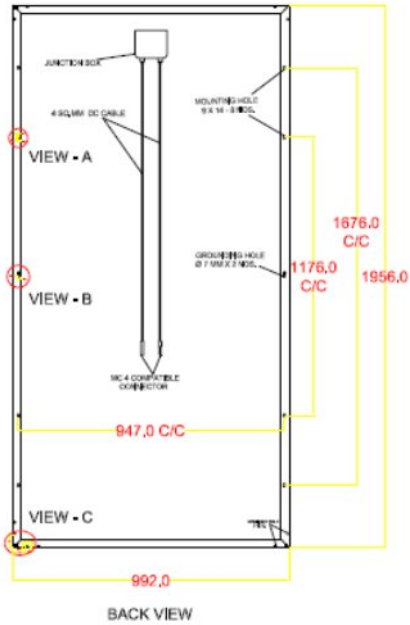
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Drawing.

Module Dimension details are mentioned in the Frame

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