



Webel SOLAR



- > Module efficiency $\geq 14.5\%$ ensures optimum performance even in diffused light conditions
- > 25 years warranty* on electrical performance
- > Calibration modules for output measurement regularly tested at Fraunhofer ISE
- > Integrated manufacturing of cells and modules in one production line guarantees optimum performance
- > ISO 9001:2000 certification ensures consistent product quality
- > Modules are approved for IEC/EN 61215, IEC/EN 61730 and UL 1703 standards from various reputed institutes like UL, TUV, EURO TEST & CSA INTERNATIONAL
- > $\pm 5\%$ output tolerance**

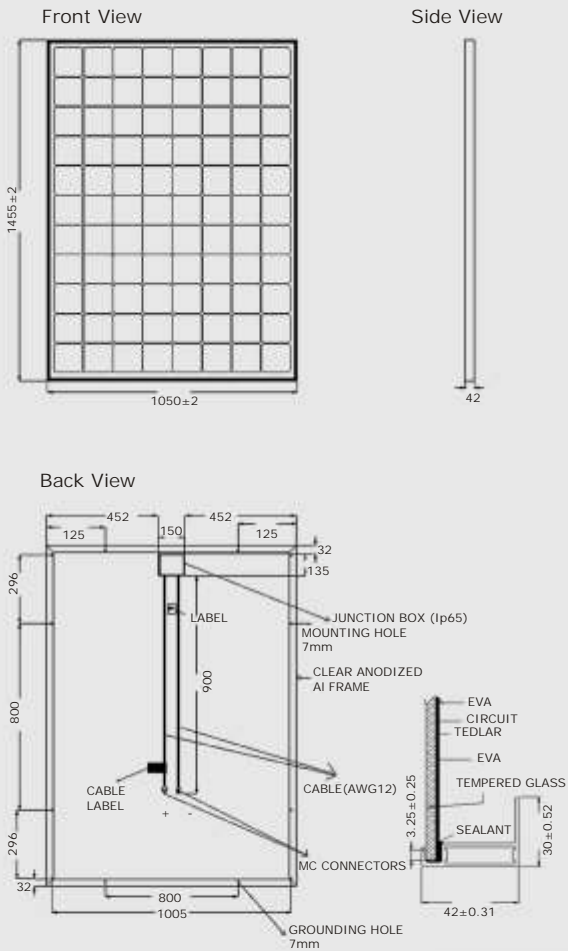
W2100 Series

Electrical Specification (Standard Test Conditions: 1000 W/m², 25°C, AM 1.5)

Maximum Power	P _{max} (Wp)	210	215	220	225
Short Circuit Current	I _{sc} (Amp)	5.25	5.32	5.35	5.4
Open Circuit Voltage	V _{oc} (Volt)	54.2	54.3	54.5	54.8
Current at Maximum Power	I _{max} (Amp)	4.8	4.9	4.97	5.05
Voltage at Maximum Power	V _{max} (Volt)	43.8	43.9	44.3	44.6
Maximum System Voltage		1000 Volt			
Tolerance**		+/-5%			

** $\pm 3\%$ tolerance on maximum power also available on request.

Drawing (Dimensions in mm)



Mechanical Specification

W2100

Height x Width x Depth(H x W x D)	(1455 x 1050 x 42)mm
Weight	21 kg
Junction box	IP 65 rated junction box with 4 bypass diode
Cable	Solar cable 900mm length with 4.0 mm ² double insulated cable, multicontact connector
Front glass	Low iron content, toughened & tempered High transmission with 4mm thickness
Solar cells	88 x Monocrystalline Si 5" (125mm x 125 mm)
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Back side	Tedlar Composite film(TPT), Clear & white colour
Frame	Anodized aluminium frame with twin wall profile

Temperature Coefficients

Coefficient of Current	α	0.05% / °C
Coefficient of Voltage	β	-0.34% / °C
Coefficient of Power	γ	-0.45% / °C

Permissible Operating Conditions

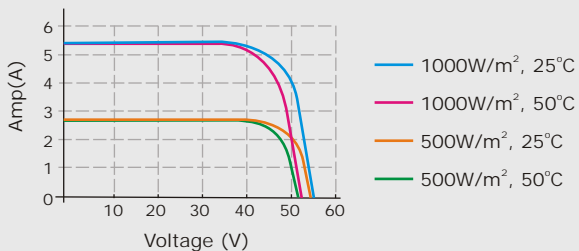
Temperature Range	(-40 °C To + 85 °C)
Maximum System Voltage	1000 V
Maximum surface load capacity	Tested up to 2400Pa according to IEC 61215
Resistance against hail	Maximum diameter of 25mm with impact speed of 82.8 Km/h

Guarantees

Product Warranty	2 years
*Performance Warranty	Guaranteed output of 90% for 10 years and 80% for 25 years
Approvals & Certificates	IEC 61215 Edition II, IEC 61730, UL 1703

IV - Curve

Performance Measurement



Certifications



WEBEL WEBSOL ENERGY SYSTEMS LIMITED



Corporate Office and Plant :
Sector -II, SEZ Falta, 24 Parganas (South), West Bengal Pin- 743504,
Phone: +91 3174 222932, Fax: +91 3174 222933, E mail: websol@webelsolar.com
Website: www.webelsolar.com

Administrative Office :
Plot No N1 , Block GP, Sector V, Salt Lake Electronics Complex , Kolkata -700091
Phone: +91 33 2357 3754, Fax: +91 33 2357 3258, E mail: websol@webelsolar.com