



Webel SOLAR



W110 Series

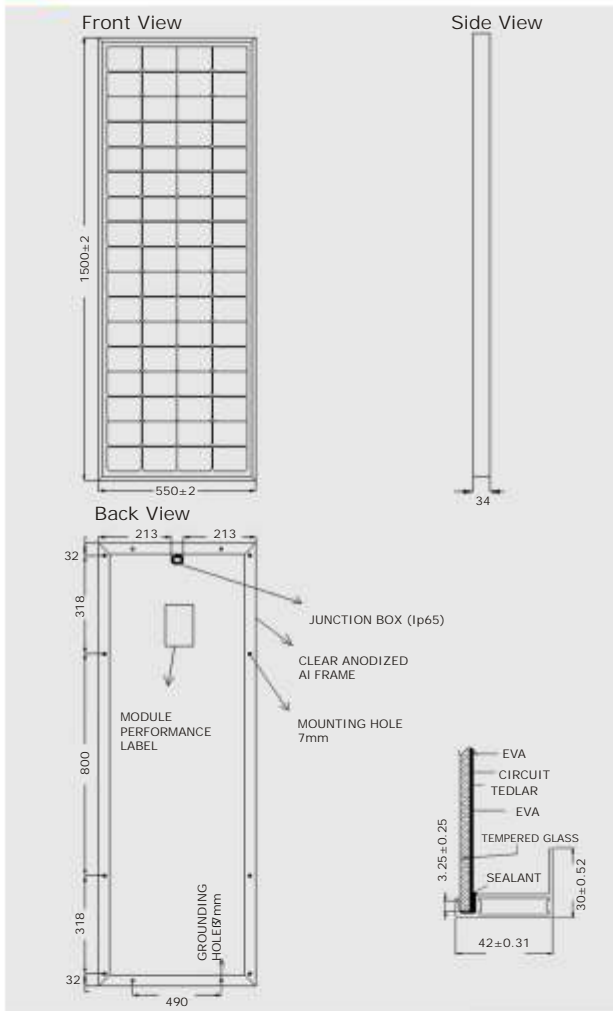
- > Module efficiency $\geq 14\%$ ensures optimum performance even in diffused light conditions
- > 15 years warranty* on electrical performance
- > Calibration modules for output measurement regularly tested at Fraunhofer ISE
- > Integrated manufacturing of cells and modules in one production line guarantees optimum performance
- > ISO 9001:2000 certification ensures consistent product quality
- > Modules are approved for IEC/EN 61215 and IEC/EN 61730 from various reputed institutes like EURO TEST & CSA INTERNATIONAL
- > $\pm 5\%$ output tolerance**

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

Maximum Power	Pmax (Wp)	110	115
Short Circuit Current	Isc(Amp)	7	7.1
Open Circuit Voltage	Voc(Volt)	20.5	21
Current at Maximum Power	I _{max} (Amp)	6.55	6.77
Voltage at Maximum Power	V _{max} (Volt)	16.8	17
Maximum System Voltage			600 Volt
Tolerance**			+/-5%

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

Drawing (Dimensions in mm)



Mechanical Specification

W110

Height x Width x Depth(H x W x D)	(1500 x 550 x 34)mm
Weight	9.65 Kg
Junction box	IP 65 rated Junction box with 2 bypass diode
Front glass	low iron content, toughened & tempered High transmission with 3mm thickness
Solar cells	(125mm x 83mm), cut 68 cells connected in series
Cell encapsulation	EVA (ethylene vinyl acetate)
Back side	Tedlar Composite film(TPT), 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

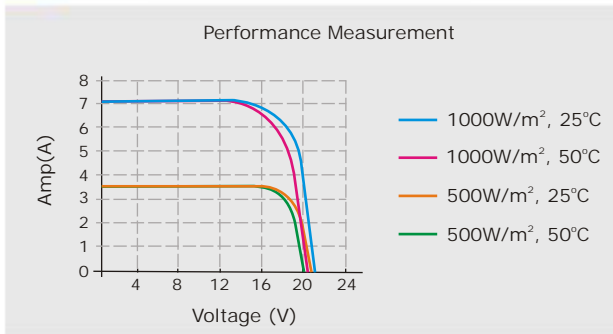
Permissible Operating Conditions

Temperature Range	(-40 °C To + 85 °C)
Maximum System Voltage	600V
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 15 years
Approvals & Certificates	CE, IEC 61215, IEC 61730

IV - Curve



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