



Webel SOLAR



W120 Series

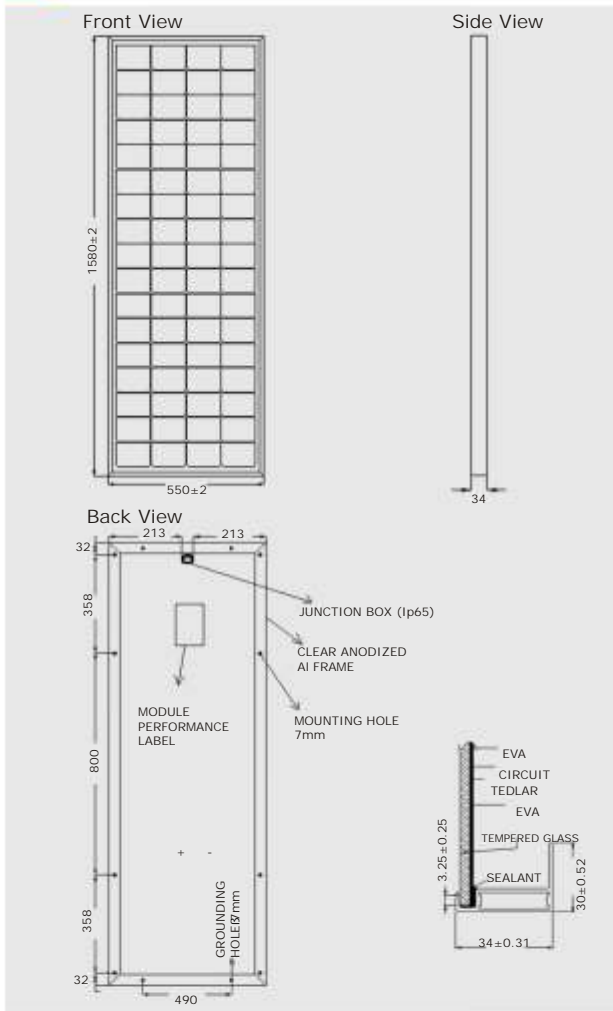
- Module efficiency $\geq 14\%$ ensures optimum performance even in diffused light conditions
- 15 years warranty* on electrical performance
- Calibration modules for output measurement regularly tested at Fraunhofer ISE
- Integrated manufacturing of cells and modules in one production line guarantees 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)	115	120
Short Circuit Current	Isc(Amp)	7.45	7.5
Open Circuit Voltage	Voc(Volt)	21	21.25
Current at Maximum Power	I _{max} (Amp)	6.85	7.06
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

W120

Height x Width x Depth(H x W x D)	(1580 x 550 x 34)mm
Weight	10.25 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 88mm), 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

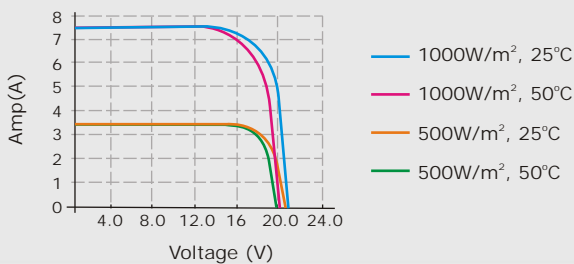
Coefficient of Current	α	0.05% / °C
Coefficient of Voltage	β	-0.34% / °C
Coefficient of Power	γ	-0.45% / °C

Permissible Operating Conditions

Temperature Range	(-40 °C To + 85 °C)
Maximum System Voltage	600V
Maximum surface load capacity	Tested upto 2400Pa according to IEC 61215
Resistance against hail	Maximum diameter of 25mm with impactspeed of 82.8 Km/h

IV - Curve

Performance Measurement



Guarantees

Product Warranty	2 years
*Performance Warranty	Guaranteed Output of 90% for 10 years and 80% for 15 years
Approvals & Certificates	CE, IEC61215, IEC61730

Certifications



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