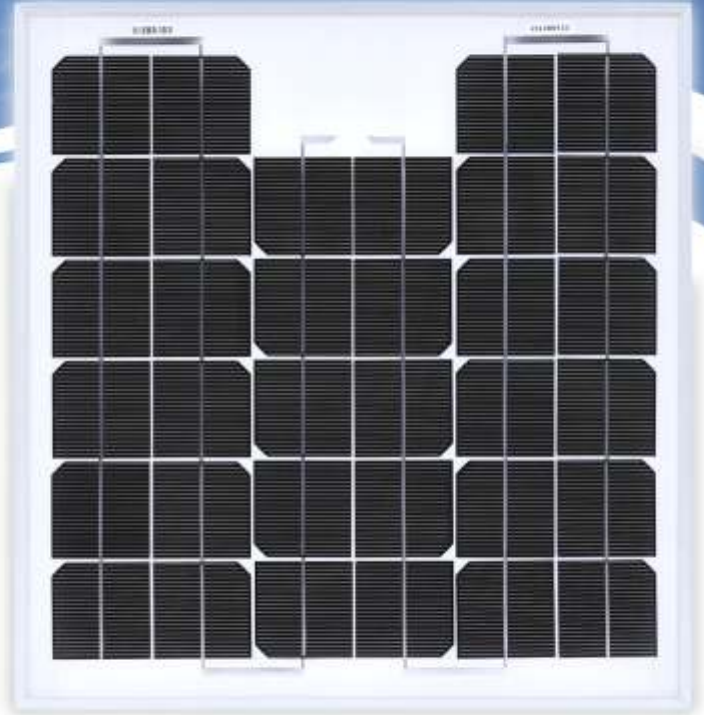




Webel SOLAR



- > Ideal module design 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
- > ±5% output tolerance**

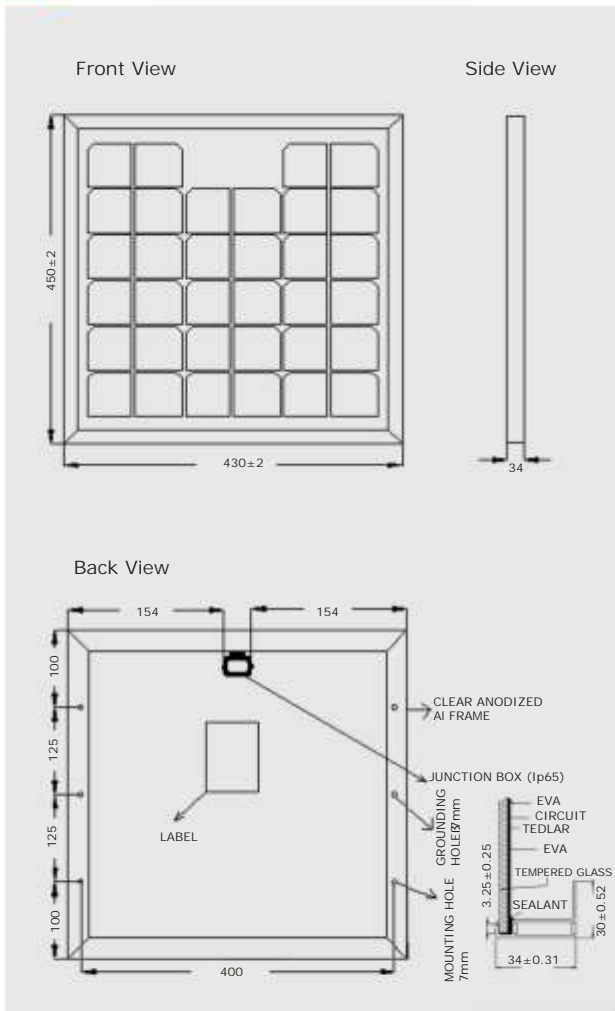
W20 Series

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

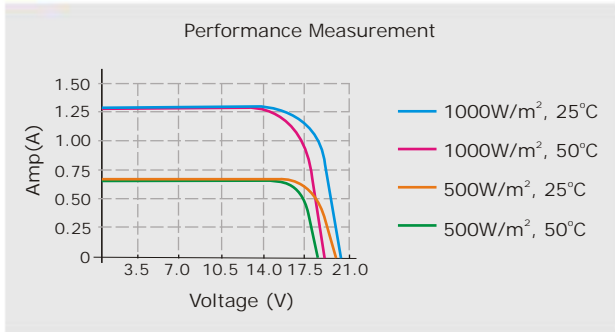
Maximum Power	Pmax (Wp)	20	18
Short Circuit Current	Isc(Amp)	1.35	1.25
Open Circuit Voltage	Voc(Volt)	20	20
Current at Maximum Power	I _{max} (Amp)	1.2	1.10
Voltage at Maximum Power	V _{max} (Volt)	16.7	16.5
Maximum System Voltage		600 Volt	
Tolerance**		+/-5%	

** ±3% tolerance on maximum power also available on request.

Drawing (Dimensions in mm)



IV - Curve



Mechanical Specification

W20

Height x Width x Depth(H x W x D)	(430 x 450 x 34)mm
Weight	2.8 Kg
Junction box	IP 65 rated 2 terminal Junction box
Front glass	low iron content, toughened & tempered High transmission with 3mm thickness
Solar cells	(125mm x 125mm) ^{1/4th} , cut 34 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

Guarantees

Product Warranty	2 years
*Performance Warranty	Guaranteed Output of 90% for 10 years and 80% for 15 years
Approvals & Certificates	CE, IEC61215, IEC 61730

Certifications



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