



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**

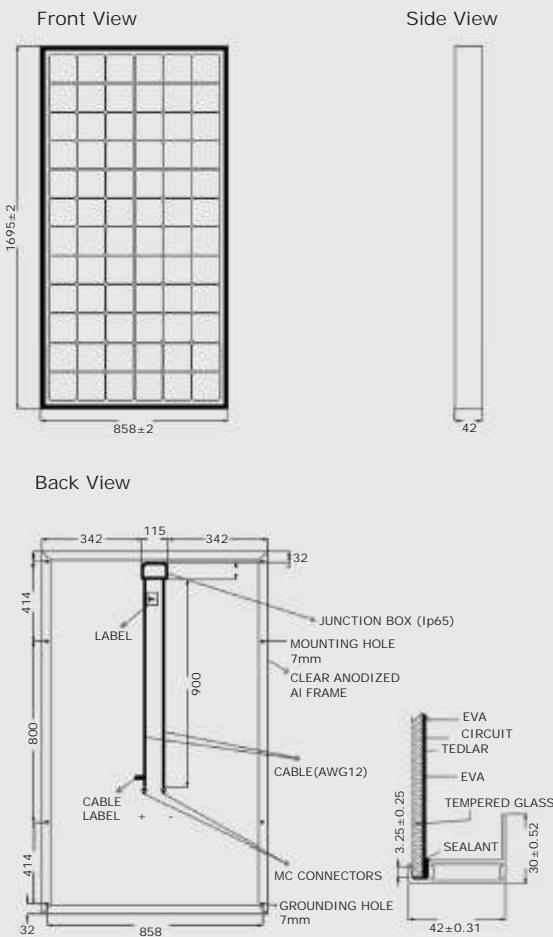
W1600 Series

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

Maximum Power	Pmax (Wp)	210	205	200	195
Short Circuit Current	Isc(Amp)	6.10	6.05	5.99	5.93
Open Circuit Voltage	Voc(Volt)	44.8	44.5	44.3	44.0
Current at Maximum Power	I _{max} (Amp)	5.74	5.65	5.56	5.50
Voltage at Maximum Power	V _{max} (Volt)	36.6	36.3	36.0	35.5
Maximum System Voltage	1000 Volt				
Tolerance**	+/-5%				

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

Drawing (Dimensions in mm)



Mechanical Specification

W1600

Height x Width x Depth(H x W x D)	(1695 x 858 x 42)mm
Weight	20 Kg
Junction box	IP 65 rated junction box with 3 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 transmittance with 4mm thickness
Solar cells	72 x Monocrystalline Silicon Cell" (135mm x 135 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

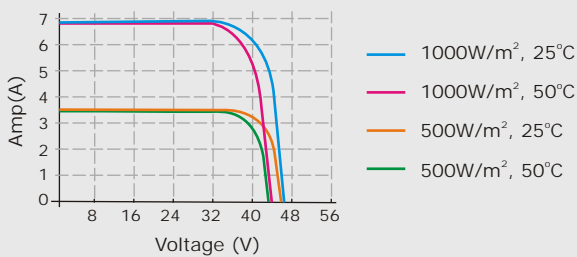
Temperature Range	(-40 °C To + 85 °C)
Maximum System Voltage	1000 V
Maximum surface load capacity	Tested up to 2400Pa according to IEC 61215
Resistance against hail	Maximum diameter of 25mm with impact speed of 82.8 Km/h

Guarantees

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

IV - Curve

Performance Measurement



Certifications



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